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GOVERNOR



HAROLD LEGGETT, PH.D.  
SECRETARY

**State of Louisiana**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**ENVIRONMENTAL SERVICES**

Certified Mail No.

Activity No.: PER20070022  
Agency Interest No. 286

Mr. D. L. Schuessler  
Site Manager  
Baton Rouge Chemical Plant  
ExxonMobil Chemical Company  
P.O. Box 241  
Baton Rouge, LA 70821-0241

RE: Operating permit renewal, ESCOREZ 1000(E-1000) Unit, Baton Rouge Chemical Plant,  
ExxonMobil Chemical Company, Baton Rouge, East Baton Rouge Parish, Louisiana

Dear Mr. Schuessler:

This is to inform you that the permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_\_ of \_\_\_\_\_, 2013, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest No. cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

Permit No.: 2156-V1

Sincerely,

Cheryl Sonnier Nolan  
Assistant Secretary

CSN: CXL  
cc: EPA Region VI

**AIR PERMIT BRIEFING SHEET  
AIR PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ESCOREZ 1000 (E-1000) Unit  
Baton Rouge Chemical Plant  
Agency Interest No. 286  
ExxonMobil Chemical Company  
Baton Rouge, East Baton Rouge Parish, Louisiana**

**I. Background**

ExxonMobil Chemical Company (ExxonMobil) owns and operates a chemical manufacturing complex, the Baton Rouge Chemical Plant (BRCP). The ESCOREZ 1000(E-1000) Unit in BRCP currently operates under Permit No. 2156-V0 issued on July 3, 2003.

**II. Origin**

A permit application and Emission Inventory Questionnaire was submitted by ExxonMobil Chemical Company on December 21, 2007, requesting a minor modification and renewal of Part 70 operating permit for E-1000 Unit.

**III. Description**

The E-1000 Unit produces a series of petroleum hydrocarbon resins used in the adhesives industry from a mixture of indigenous and purchased feedstocks. The resins produced are classed as catalytic hydrocarbon resins. The feedstocks are segregated into tankage. Indigenous feeds are combined with purchased feeds and additives, depending on which grade of ESCOREZ is being produced. The grades are grouped into all aliphatic (based on C<sub>5</sub>-C<sub>6</sub> olefins and diolefins), all aromatic (based on C<sub>8</sub>-C<sub>10</sub> aromatic olefins), and mixed aliphatic-aromatic resins.

The combined feed and additives are fed to the reactor where a polymerization catalyst is added. A complex mixture of polymer molecules is obtained, with a distribution of molecular weight and physical properties depending on the resin grade being produced. The heat of polymerization is removed by cooling tower water exchange with the process fluid.

When the reaction is complete (this a continuous reaction system, with a residence time of several hours), the process stream moves to a quench vessel where water is added to kill the catalyst residues and neutralize the process stream. The washed dilute process stream is then flashed and a portion of the solvent and unreacted monomers is distilled overhead. This overhead stream is returned to tankage and eventually recycled to the process. The tower bottoms stream is the dilute resin solution (approximately 50% concentration) which is sent to tankage.

This permit renewal also includes the following changes:

- Install a jump over to allow solvent from existing Tank T-1310 to be stored in existing

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tanks T-1305 and T-1306. Although these tanks vent to the vapor recovery system, the net emission changes are reviewed for the Nonattainment New Source Review (NNSR) purposes. In addition, there will also be a small number of new fugitive components associated with the proposed jump over.

- Change the service of existing tanks T-1305 and T-1306 to allow the flexibility to store an additional resin product.
- Reconcile the emissions for Source M-50 (Secondary Wastewater Emissions). The emissions basis is changed from the use of a site specific factor to using WATER9, Version 2.0.
- Include the leg landing loss emissions for Tanks T-1775, T-1966, and T-1967. They are included as a work activity.
- Add the hydrochloric acid emissions to the Gas Scrubber Vent (V-194).
- Provide the Compliance Assurance Monitoring (CAM) plans for sources T-1969 and V-294.
- Incorporate the requirements of the Miscellaneous Organic NESHAPs (MON) MACT (Subpart FFFF) and Site Remediation MACT (Subpart GGGG) in the regulatory analysis tables.

Estimated emissions from E-1000 Unit in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	8.09	2.34	-5.75
SO <sub>2</sub>	-	-	-
NO <sub>x</sub>	-	-	-
CO	-	-	-
VOC	34.72	41.83	+7.11

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
1,3-Butadiene	0.01	0.01	-
Benzene	1.05	1.01	-0.04
Cumene	0.10	0.02	-0.08
Ethyl Benzene	0.14	0.03	-0.11
n-Hexane	1.76	2.08	+0.32

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**VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

<b>Pollutant</b>	<b>Before</b>	<b>After</b>	<b>Change</b>
Methanol	0.01	0.01	-
Naphthalene	0.17	-	-0.17
Styrene	1.39	1.33	-0.06
Toluene	0.34	0.31	-0.03
2,2,4-Trimethylpentane	0.07	0.02	-0.05
Xylene (mixed isomers)	0.28	0.21	-0.07
<b>Total</b>	<b>5.32</b>	<b>5.03</b>	<b>-0.29</b>

**Other VOC (TPY):** 36.8

The proposed changes in E-1000 will result in very small emission changes at the flares (part of the Plant Infrastructure Permit No. 2390-V1). As shown in the table below, there will be very small increases in CO, NO<sub>x</sub>, PM<sub>10</sub>, SO<sub>2</sub>, and H<sub>2</sub>S emissions. These increases are based on the evaluation of the past actual emission of the project-impacted sources versus the proposed permitted potential emissions. The resulting increases in emissions will be less than the PSD Significant Threshold for these criteria pollutants. Therefore, PSD permitting requirements are not triggered.

<b>Criteria Pollutant</b>	<b>PSD Significant Threshold(TPY)</b>	<b>Total Project -Impacted Emissions Increases</b>
PM <sub>10</sub>	25/15	0.02
SO <sub>2</sub>	40	0.001
CO	100	0.51
NO <sub>x</sub>	40	0.10
H <sub>2</sub> S	10	0.03

The VOC emission increases associated with the projects are 7.9 tons per year. Since the project increases are less than the 25 tons per year Nonattainment New Source Review (NNSR) analysis trigger threshold, no further NNSR evaluation for VOC is required.

The NO<sub>x</sub> emissions increases associated with the projects are 0.1 tons per year. Since the project increases are less than the 25 tons per year Nonattainment New Source Review (NNSR) analysis trigger threshold, no further NNSR evaluation for NO<sub>x</sub> is required.

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**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) review does not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, Louisiana on October XX, 2008. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on October XX, 2008. The draft permit was also submitted to US EPA Region VI. XX comment was received.

**VII. Effects on Ambient Air**

Emissions were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. The proposed project did not require the applicant to model emissions.

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**VIII. General Condition XVII Activities**

Work Activity	Schedule	Emission Rates - TPY				
		PM <sub>10</sub>	SO <sub>2</sub>	NOx	CO	VOC
Sampling	1,050/yr				0.08	
Equipment Preparation	Varies from daily to yearly				2.27	
Tanks - Inspection and Maintenance	4/yr				3.30	
Pump and Driver Lubrication Systems	Varies based on need				0.36	
Catalyst Loading	3,000 TPY loaded/unloaded	0.03			0.02 <sup>HCI</sup>	
Tank Floating Roof Leg Landing Losses	6/yr				1.60	

**IX. Insignificant Activities**

ID No.	Description	Citation
	Unit Tanks(<250 gals, TVP<=3.5 psia)	Insignificant Activity per LAC 33:III.501.B.5.A.2.
	Unit Tanks(<10,000 gals, TVP<0.5 psia)	Insignificant Activity per LAC 33:III.501.B.5.A.3.
	Analyzer Vents	Insignificant Activity per LAC 33:III.501.B.5.A.9.

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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III.Chapter																
		5 <sup>1</sup>	9	11	13	15	2103	2109	2111	2115	2122	2153	2147	2149	22	51*	53	56
UNF007	E-1000 Unit	1	1	1	1											1	1	1
EQT0908	C-02E															1		
EQT0909	C-03D															1		
EQT0910	M-01Q															1		
EQT0911	M-50A														2		1	
EQT0925	M-50B														2		1	
EQT0926	M-50C														2		1	
EQT0927	M-50D														2		1	
EQT0912	T-1305														1		1	
EQT0913--	-T-1306--															1		
EQT0914	T-1309														1		1	
EQT0915	T-1391														3		1	
EQT0916	T-1775														1		1	
EQT0917	T-1955														1		1	

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ID No.:	Description	LAC 33:III.Chapter																
		5 <sup>1</sup>	9	11	13	15	2103	2109	2111	2115	2122	2153	2147	2149	22	51 <sup>*</sup>	53	56
EQT0932	T-1964														2			1
EQT0918	T-1966															1		
EQT0919	T-1967															1		
EQT0933	T-1969															1		
EQT0920	T-21															1		
EQT0921	T-22															1		
EQT0922	T-24															1		
EQT0934	T-3004															1		
EQT0935	T-3006															1		
EQT0936	T-3007															1		
EQT0937	T-3008															1		
EQT0938	T-3009															1		
EQT0923	T-3087															1		
EQT0924	V-194															3		
FUG0058	U-105															1		
FUG0059	U-49A															1		

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SCOREZ 1000 (E-1000) Unit  
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X. **Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III.Chapter																
		5 <sup>1</sup>	9	11	13	15	2103	2109	2111	2115	2122	2153	2147	2149	22	51 <sup>*</sup>	53	56
FUG0060	U-45D								1	1						1		
RLP829	V-294									1			3			1		
RLP830	V-389									3		2		3		1		
RLP831	V-422									3		2	3			1		

\*The regulations indicated above are State Only regulations.

<sup>1</sup>LAC 33:III.501.C.6 citations are federally enforceable except when it specifically states that the regulation is State Only.

**KEY TO MATRIX**

- 1 - The regulations have applicable requirements that apply to this particular emission source.  
 -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as if it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank - The regulations clearly do not apply to this type of emission source.

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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR				
		D	A	K	V	Z	R	N	A	F	E	H	Q	G	FF	GGGG	64	68
UNF007	E-1000 Unit	1					1		1	1	1			1		1	1	1
EQT0908	C-02E																	3
EQT0909	C-03D																	3
EQT0910	M-01Q																	
EQT0911	M-50A													1				
EQT0925	M-50B													1				
EQT0926	M-50C													1				
EQT0927	M-50D													1				
EQT0912	T-1305													2				
EQT0913	T-1306													2				
EQT0914	T-1309													2				
EQT0915	T-1391													3				
EQT0916	T-1775													1				

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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR			
		A	D	K	Z	H	N	R	A	F	E	A	H	O	E	FFP	GGGG
EQT0917	T-1955			2										1			
EQT0932	T-1964			2										1			
EQT0918	T-1966				2												
EQT0919	T-1967					2											
EQT0933	T-1969						2										
EQT0920	T-21							3						3			
EQT0921	T-22								3					3			
EQT0922	T-24									2				3			
EQT0934	T-3004										3						
EQT0935	T-3006											3					
EQT0936	T-3007												1				
EQT0937	T-3008												1				
EQT0938	T-3009												1				
EQT0923	T-3087												1				

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

KREYV TOMATIX

- APPENDIX A**

1. The regulations have applicable requirements that apply to this particular emission source.  
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.

2. The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.

3. The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.  
Blank – The regulations clearly do not apply to this type of emission source.

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**Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No.	Requirement	Notes
EQT908 C-02E EQT909 C-03D	NESHAP for Source Categories Subpart Q-Chromium Emissions from Industrial Process Cooling Towers (IPCT) [40 CFR Part 63.400(a)]	DOES NOT APPLY. No water treatment programs using chromium or chromium compounds at the IPCT.
EQT910 M-01Q	Control of Emissions of Volatile Organic Compounds – Loading [LAC 33:III.2107.A]	DOES NOT APPLY. VOC in materials loaded have a true vapor pressure <1.5 psia at loading conditions.
EQT911 M-50A EQT925 M-50B EQT926 M-50C EQT927 M-50D RLP830 V-389 RLP831 V-422	Control of Emissions of Organic Compounds - Standards for Industrial Wastewater [LAC 33:III.2153.G.6]	EXEMPT. Any component of wastewater storage, handling, transfer, or treatment facility that is subject to NESHAP Part 61 Subpart FF is exempt from this section.
EQT912 T-1305 EQT913 T-1306 EQT914 T-1309 EQT917 T-1955	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 63.2535(c)]	Compliance with the requirements of the MON constitutes compliance with 40 CFR 60 Subpart Kb per 63.2535(c).
EQT915 T-1391	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110(b)]	DOES NOT APPLY. Storage vessels with has a capacity $\geq 19,812$ gals (75 cubic meters) and $<39,889$ gallons(151 cubic meters) that store a liquid with maximum vapor pressure less than 2.18 psia (15 kPa) are not subject to this Subpart.

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ID No.	Requirement	Notes
EQT932 T-1964	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. No construction, reconstruction, or modification after July 23, 1984.
EQT918 T-1966		
EQT919 T-1967		
EQT933 T-1969		
EQT922 T-24		
EQT920 T-21	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Storage vessel has a capacity <19.812 gals (75 cubic meters).
EQT921 T-22		
EQT934 T-3004		
EQT935 T-3006		
EQT936 T-3007		
EQT937 T-3008		
EQT938 T-3009		
EQT923 T-3087		
EQT915 T-1391	Control of Emission of Organic Compounds-Storage of VOC Compounds [LAC 33:III.2103]	DOES NOT APPLY. The maximum true vapor pressure (at storage conditions) of the liquid stored in this vessel is <1.5 psia.
EQT920 T-21		
EQT921 T-22		
EQT922 T-24		
EQT923 T-3087	Control of Emission of Organic Compounds-Storage of VOC Compounds [LAC 33:III.2103]	DOES NOT APPLY. Container has a capacity less than 250 gallons.

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**Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT920 T-21	NESHAP Subpart FF – National Emission Standard for Benzene Waste Operations [40 CFR 61.432(c)]	DOES NOT APPLY. Applicability determinations for benzene containing wastestreams have already been made upstream of this source. Benzene containing waste streams entering this source have undergone prior treatment so that the flow-weighted annual average benzene concentration is <10 ppmw.
EOT924 V-194	Compliance Assurance Monitoring (CAM) [40 CFR Part 64]	DOES NOT APPLY. This source is not subject to the requirement of the CAM regulation. The source has pre-control emission less than the Title V threshold. Therefore, CAM does not apply.
RLP829 V-294	NSPS Subpart III-Standards of Performance for VOC Emissions from SOCMI Air Oxidation Unit Processes [40 CFR 60.611]	DOES NOT APPLY. Does not meet the definition of an air oxidation process unit.
RLP830 V-389	NSPS Subpart NNN-SOCMI Distillation Operations [40 CFR 60.660(a)]	DOES NOT APPLY. Process unit does not produce any of the SOCMI chemicals listed in 40 CFR 60.667 as a product, coproduct, by-product, or intermediate.
RLP831 V-422	NSPS Subpart RRR-SOCMI Reactor Processes [40 CFR 60.701]	DOES NOT APPLY. Does not meet the definition of a reactor process.
	Control of Emission of Organic Compounds – Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147.A.1]	DOES NOT APPLY. Does not produce any of the SOCMI chemicals listed in Table 8 in LAC 33:III Chapter 21 Appendix A as a final product or intermediate.

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**Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No.	Requirement	Notes
RLP830 V-389	Control of Emission of Organic Compounds: Waste Gas Disposal [LAC 33:III.2115]	DOES NOT APPLY. This regulation does not apply to any waste gas stream that is required by another federal or state regulation to implement controls that reduce VOCs to a more stringent standard than would be required by this section.
RLP831 V-422		

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

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EQUIPMENT LIST		
EMISSION ID	DESCRIPTION	NOTES
EQT911 M-50A	WASTEWATER STREAMS TO WIL A RESIN STORAGE TANK	Wastewater streams are sent to the WIL A steam stripper for treatment (EIQ No. V-148 in BRCP Plant Infrastructure Permit). Noncondensable overhead from WIL A stripper is routed to the High Pressure Flare System, which is primary fuel supply for site process heaters and boilers. When system capacity is exceeded, the gases are conveyed to one or more flares for combustion.
EQT925 M-50B	WASTEWATER STREAMS TO AIM STRIPPER	Wastewater streams are sent to the AIM stripper (EIQ No. V-389, RLPS30) in this permit for treatment.
EQT912 T-1305	RESIN STORAGE TANK	Closed vent system routes vapors to the No. 16 Flare or No. 26 Flare (EIQ Nos. M-06 and M-08A respectively in the BRCP Plant Infrastructure permit).
EQT913 T-1306	RESIN STORAGE TANK	Closed vent system routes vapors to the No. 16 Flare or No. 26 Flare (EIQ Nos. M-06 and M-08A respectively in the BRCP Plant Infrastructure permit).
EQT914 T-1309	E-1000 RESIN FEED STORAGE TANK	Closed vent system routes vapors to the No. 16 Flare or No. 26 Flare (EIQ Nos. M-06 and M-08A respectively in the BRCP Plant Infrastructure permit).
EQT917 T-1955	RAFFINATE STORAGE TANK (VR)	Closed vent system routes vapors to the No. 16 Flare or No. 26 Flare (EIQ Nos. M-06 and M-08A respectively in the BRCP Plant Infrastructure permit).
EQT932 T-1964	WASTEWATER STORAGE TANK	Closed vent system routes vapors to the No. 16 Flare or No. 26 Flare (EIQ Nos. M-06 and M-08A respectively in the BRCP Plant Infrastructure permit).
EQT933 T-1969	E-1000 RESIN STORAGE TANK	Closed vent system routes vapors to the No. 16 Flare or No. 26 Flare (EIQ Nos. M-06 and M-08A respectively in the BRCP Plant Infrastructure permit).
EQT934 T-3004	BLOWDOWN DRUM (ED-01)	Closed vent system routes vapors to the No. 16 Flare or No. 26 Flare (EIQ Nos. M-06 and M-08A respectively in the BRCP Plant Infrastructure permit).
EQT935 T-3006	PI STEAM STRIPPER FEED DRUM (ED-03)	Closed vent system routes vapors to the No. 16 Flare or No. 26 Flare (EIQ Nos. M-06 and M-08A respectively in the BRCP Plant Infrastructure permit).
EQT936 T-3007	BLOWDOWN DRUM (ED-05)	Closed vent system routes vapors to the No. 16 Flare or No. 26 Flare (EIQ Nos. M-06 and M-08A respectively in the BRCP Plant Infrastructure permit).
EQT937 T-3008	WASTEWATER HEADER DRUM (ED-06)	Closed vent system routes vapors to the No. 16 Flare or No. 26 Flare (EIQ Nos. M-06 and M-08A respectively in the BRCP Plant Infrastructure permit).

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ESCOREZ 1000 (E-1000) Unit**  
**Baton Rouge Chemical Plant**  
**Agency Interest No. 286**  
**ExxonMobil Chemical Company**  
**Baton Rouge, East Baton Rouge Parish, Louisiana**

**EQUIPMENT LIST**

EMISSION ID	DESCRIPTION	NOTES
EQT938 T-3009	KNOCKOUT POT (FD-01)	Closed vent system routes vapors to the No. 16 Flare or No. 26 Flare (EIQ Nos. M-06 and M-08A respectively in the BRCP Plant Infrastructure permit).
RLP829 V-294	AT01, BR-01, BT-01, CR-01, DT-01, DT-02 VENTS	Closed vent system routes vapors to the No. 16 Flare or No. 26 Flare (EIQ Nos. M-06 and M-08A respectively in the BRCP Plant Infrastructure permit).
RLP830 V-389	AIM STEAM STRIPPER (ET-01)	The AIM Stripper serves as NESHPAP FF treatment for E-1000 wastewater streams (EIQ No. M-50B)
RLP831 V-422	ALUMINOUS WATER DRUM (ED-02)	The Aluminous Water Drum serves as NESHPAP FF treatment for EIQ No. M-50C in this permit.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**APPENDIX A: PART 70 ONLY SPECIFIC CONDITIONS**

**ESCOREZ 1000 (E-1000) Unit**  
**Baton Rouge Chemical Plant**  
**Agency Interest No. 286**  
**ExxonMobil Chemical Company**  
**Baton Rouge, East Baton Rouge Parish, Louisiana**

Permittee shall comply with a streamlined equipment leaks monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the fugitive emission monitoring programs being streamlined, as indicated in the following table. Noncompliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the applicable fugitive emissions programs.

- a. Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamlined program will include any exemptions based on size of component available in any of the programs being streamlined.
- b. Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters.
- c. Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on August 15 and February 15, to cover the periods January 1 through June 30, and July 1, through December 31, respectively. The semiannual reports shall include any monitoring performed within the reporting period.

<b>Unit</b>	<b>Program Being Streamlined</b>	<b>Stream Applicability</b>	<b>Overall Most Stringent Program</b>
FUG059 U-49A FUG058 U-105	40 CFR 63 Subpart UU referencing Subpart FFFF LA Non-HON MACT 40 CFR 61 Sub J & V LAC 33:III.2122	5% VOHAP  5% VOTAP 10% Benzene 10% VOC	40 CFR 63 Subpart UU (referencing Subpart is 40 CFR 63 Subpart FFFF)
FUG060U-45D	40 CFR 63 Subpart UU referencing Subpart FFFF 5% VOTAP 5% VOTAP LAC 33:III.2122 40 CFR 61 Sub J & V 40 CFR 60 Subpart VV	5% VOHAP  5% VOTAP 10% VOC 10% Benzene 10% VOC	40 CFR 63 Subpart UU (referencing Subpart is 40 CFR 63 Subpart FFFF)

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE ONLY SPECIFIC CONDITIONS**

**ESCOREZ 1000 (E-1000) Unit  
Baton Rouge Chemical Plant  
Agency Interest No. 286  
ExxonMobil Chemical Company  
Baton Rouge, East Baton Rouge Parish, Louisiana**

1. The number of each type of component required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the Department by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided:
  - a. Changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increases except from the fugitive emissions components themselves;
  - b. The changes do not involve any associated increase in production rate or capacity, or tie in of new or modified process equipment other than the piping components;
  - c. Actual emissions following the changes will not exceed the emission limits contained in this permit; and
  - d. The components are promptly incorporated into any applicable leak detection and repair program.

## 40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
  - 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];

## 40 CFR PART 70 GENERAL CONDITIONS

2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]

I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.  
[Reference 40 CFR 70.6(a)(3)(ii)(B)]

J. Records of required monitoring shall include the following:

1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]

K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]

L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

## 40 CFR PART 70 GENERAL CONDITIONS

- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
  - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;

## 40 CFR PART 70 GENERAL CONDITIONS

4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
  5. changes in emissions would not qualify as a significant modification; and
  6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
    - a. Report by June 30 to cover January through March
    - b. Report by September 30 to cover April through June
    - c. Report by December 31 to cover July through September
    - d. Report by March 31 to cover October through December
  4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]

## 40 CFR PART 70 GENERAL CONDITIONS

- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
  1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.  
The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated December 21, 2007.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.  
  
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
  - A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
    - 1. Report by June 30 to cover January through March
    - 2. Report by September 30 to cover April through June
    - 3. Report by December 31 to cover July through September
    - 4. Report by March 31 to cover October through December
  - D. Each report submitted in accordance with this condition shall contain the following information:
    - 1. Description of noncomplying emission(s);
    - 2. Cause of noncompliance;
    - 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
    - 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
    - 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
  - E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
  - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
  - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
  - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services in accordance with LAC 33:I.Chapter 19.Facility Name and Ownership/Operator Changes Process.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
  2. Be less than the minimum emission rate (MER)
  3. Be scheduled daily, weekly, monthly, etc., or
  4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]
- These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.
- XVIII. Provisions of the permit may be appealed to the secretary in writing pursuant to La. R.S. 30:2024(A) within 30 days from notice of the permit action. A request may be made to the secretary to suspend those provisions of the permit specifically appealed. The permit remains in effect to the extent that the secretary or assistant secretary does not elect to suspend the appealed provisions as requested or, at his discretion, other permit provisions as well. Construction cannot proceed, except as specifically approved by the secretary or

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

assistant secretary, until a final decision has been rendered on the appeal. A request for hearing must be sent to the Office of the Secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

- XIX. For Part 70 sources, certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 286 - ExxonMobi Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20070022

Permit Number: 2156-V1

Air - Title V Regular Permit Renewal

Subject Item	PM10			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
<b>ESCOREZ 1000 (E-1000) Unit</b>						
EQT 0908 C-02E	0.34	0.66	1.51	0.45		1.95
EQT 0909 C-02D	0.1	0.24	0.46	0.13		0.59
EQT 0910 M-01G				0.002.		0.01
EQT 0912 T-1305				19.6		2.35
EQT 0913 T-1306				19.6		2.35
EQT 0914 Y-1309				6.9		0.83
EQT 0915 T-1391				0.11		0.47
EQT 0916 T-1775				0.73		3.21
EQT 0917 T-1955			17.1		2.05	
EQT 0918 T-1966			0.83			3.63
EQT 0919 T-1967			0.83			3.63
EQT 0920 T-21			0.002			0.01
EQT 0921 T-22			0.002			0.01
EQT 0922 T-24			0.002			0.01
EQT 0923 T-3087			0.002			0.01
EQT 0924 V-194	0.08	9.75	0.37			
FUG 0058 U-105				3.7		16.25
FUG 0059 U-49A				0.95		4.18
FUG 0060 U-49D				0.04		0.19
PCS 0006 M-50				0.02		0.1

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

INVENTORIES

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
 Activity Number: PER20070022  
 Permit Number: 2156-V1  
 Air - Title V Regular Permit Renewal

## Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>M-5D: SECONDARY WASTEWATER EMISSIONS</b>						
(E-1000)						
EQT0911	M-50A - WASTEWATER STREAMS TO WILA			50 gallons/min		8760 hr/yr (All Year)
EQT0925	M-50B - WASTEWATER STREAMS TO AIM STRIPPER			50 gallons/min		8760 hr/yr (All Year)
EQT0926	M-50C - WASTEWATER STREAMS TO ALUMINOUS WATER DRUM			50 gallons/min		8760 hr/yr (All Year)
EQT0927	M-50D - WASTEWATER STREAMS TO ANT			50 gallons/min		8760 hr/yr (All Year)
<b>ESCOREZ 1000 (E-1000) Unit</b>						
EQT0908	C-02E - GFLA-3 COOLING TOWER (E-1000)		13250 gallons/min	13250 gallons/min		8760 hr/yr (All Year)
EQT0909	C-02D - GFLA-9 COOLING TOWER (E-1000)		4800 gallons/min	4800 gallons/min		8760 hr/yr (All Year)
EQT0910	M-01Q - ALUMINOUS WATER LOADING					8760 hr/yr (All Year)
EQT0912	T-1305 - RESIN/SOLVENT STORAGE TANK	180000 gallons				240 hr/yr (All Year)
EQT0913	T-1306 - RESIN/SOLVENT STORAGE TANK	180000 gallons				240 hr/yr (All Year)
EQT0914	T-1309 - FEED STORAGE TANK	92000 gallons				240 hr/yr (All Year)
EQT0915	T-1391 - FEED STORAGE TANK	37500 gallons				8760 hr/yr (All Year)
EQT0916	T-1775 - RAFFINATE STORAGE TANK	159000 gallons				8760 hr/yr (All Year)
EQT0917	T-1955 - RAFFINATE STORAGE TANK	846000 gallons				240 hr/yr (All Year)
EQT0918	T-1966 - FEED STORAGE TANK (IFR)	1.38 million gallons				8760 hr/yr (All Year)
EQT0919	T-1967 - FEED STORAGE TANK (IFR)	1.38 million gallons				8760 hr/yr (All Year)
EQT0920	T-21 - ALUMINOUS WATER STORAGE TANK	16000 gallons				8760 hr/yr (All Year)
EQT0921	T-22 - ALUMINOUS WATER STORAGE TANK	16000 gallons				8760 hr/yr (All Year)
EQT0922	T-24 ALUMINOUS WATER STORAGE TANK	47000 gallons				8760 hr/yr (All Year)
EQT0923	T-3087 - SAMPLE COLLECTION DRUM (CD-11)	220 gallons				8760 hr/yr (All Year)
EQT0924	V-194 - CATALYST STORAGE & TRANSFER (CB-01A/B, CB-02, CB-03, CB-04, CB-05)					
EQT0932	T-1964 - WASTEWATER STORAGE TANK	92000 gallons				(None Specified)
EQT0933	T-1969 - E-1000 RESIN STORAGE TANK	88000 gallons				(None Specified)
EQT0934	T-3004 - BLOWDOWN DRUM(ED-01)	3750 gallons				(None Specified)
EQT0935	T-3006 - AIM STEAM STRIPPER FEED DRUM(ED-03)	2550 gallons				(None Specified)
EQT0936	T-3007 - BLOWDOWN DRUM(ED-05)	5800 gallons				(None Specified)
EQT0937	T-3008 - WASTEWATER HEADER DRUM(ED-06)	40 gallons				(None Specified)
EQT0938	T-3009 - KNOCKOUT POT(ED-01)	300 gallons				(None Specified)
FUG0058	U-105 - E-1000 FUGITIVES					8760 hr/yr (All Year)
FUG0059	U-49A - E-1000 TANKFIELD FUGITIVE EMISSIONS					8760 hr/yr (All Year)
FUG0060	U-45D - NEOACIDS LOADING RACK FUGITIVE EMISSIONS (E-1000)					8760 hr/yr (All Year)
RLP0829	V-294 - AT01, BR-01, CR-01, DT-02 VENTS					(None Specified)
RLP0830	V-389 - AIM STEAM STRIPPER(ET-01)					(None Specified)
RLP0831	V-422 - ALUMINOUS WATER DRUM(ED-02)					(None Specified)

**INVENTORIES**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
 Activity Number: PER20070022  
 Permit Number: 2156-V1  
 Air - Title V Regular Permit Renewal

**Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>M-50: SECONDARY WASTEWATER EMISSIONS (E-1000)</b>						
EQT0911	M-50A - WASTEWATER STREAMS TO WILA	—	—	—	—	8760 hr/yr (All Year)
EQT0925	M-50B - WASTEWATER STREAMS TO AIM STRIPPER	—	—	—	—	8760 hr/yr (All Year)
EQT0926	M-50C - WASTEWATER STREAMS TO ALUMINOUS WATER DRUM	—	—	—	—	8760 hr/yr (All Year)
EQT0927	M-50D - WASTEWATER STREAMS TO AWT	—	—	—	—	8760 hr/yr (All Year)
<b>ESCOREZ 1000 (E-1000) Unit</b>						
EOT0908	C-02E - GFLA-3 COOLING TOWER (E-1000)	13250 gallons/min	13250 gallons/min	13250 gallons/min	—	8760 hr/yr (All Year)
EOT0909	C-03D - GFLA-9 COOLING TOWER (E-1000)	4800 gallons/min	4800 gallons/min	4800 gallons/min	—	8760 hr/yr (All Year)
EQT0910	M-01Q - ALUMINOUS WATER LOADING	—	—	—	—	8760 hr/yr (All Year)
EOT0912	T-1305 - RESIN/SOLVENT STORAGE TANK	180000 gallons	—	—	—	240 hr/yr (All Year)
EQT0913	T-1306 - RESIN/SOLVENT STORAGE TANK	180000 gallons	—	—	—	240 hr/yr (All Year)
EQT0914	T-1309 - FEED STORAGE TANK	92000 gallons	—	—	—	240 hr/yr (All Year)
EOT0915	T-1391 - FEED STORAGE TANK	37500 gallons	—	—	—	8760 hr/yr (All Year)
EOT0916	T-1775 - RAFFINATE STORAGE TANK	159000 gallons	—	—	—	8760 hr/yr (All Year)
EQT0917	T-1955 - RAFFINATE STORAGE TANK	836000 gallons	—	—	—	240 hr/yr (All Year)
EOT0918	T-1966 - FEED STORAGE TANK (IFR)	1.38 million gallons	1.38 million gallons	1.38 million gallons	—	8760 hr/yr (All Year)
EOT0919	T-1967 - FEED STORAGE TANK (IFR)	—	—	—	—	8760 hr/yr (All Year)
EOT0920	T-21 - ALUMINOUS WATER STORAGE TANK	16000 gallons	—	—	—	8760 hr/yr (All Year)
EQT0921	T-22 - ALUMINOUS WATER STORAGE TANK	16000 gallons	—	—	—	8760 hr/yr (All Year)
EQT0922	T-24 - ALUMINOUS WATER STORAGE TANK	47000 gallons	—	—	—	8760 hr/yr (All Year)
EQT0923	T-3087 - SAMPLE COLLECTION DRUM (CD-11)	220 gallons	—	—	—	8760 hr/yr (All Year)
EQT0924	V-194 - CATALYST STORAGE & TRANSFER (CB-01A/B, CB-02, CB-03, CB-04, CB-05)	—	—	—	—	(None Specified)
EOT0932	T-1964 - WASTEWATER STORAGE TANK	92000 gallons	—	—	—	(None Specified)
EOT0933	T-1969 - E-1000 RESIN STORAGE TANK	88000 gallons	—	—	—	(None Specified)
EOT0934	T-3004 - BLOW/DOWN DRUM(ED-01)	37500 gallons	—	—	—	(None Specified)
EOT0935	T-3006 - AIM STEAM STRIPPER FEED DRUM(ED-03)	2550 gallons	—	—	—	(None Specified)
EOT0936	T-3007 - BLOW/DOWN DRUM(ED-05)	-5800 gallons	—	—	—	(None Specified)
EOT0937	T-3008 - WASTEWATER HEADER DRUM(ED-06)	40 gallons	—	—	—	(None Specified)
EOT0938	T-3009 - KNOCKOUT POT(ED-01)	300 gallons	—	—	—	(None Specified)
FUG0058	U-105 - E-1000 FUGITIVES	—	—	—	—	8760 hr/yr (All Year)
FUG0059	U-49A - E-1000 TANKFIELD FUGITIVE EMISSIONS (E-1000)	—	—	—	—	8760 hr/yr (All Year)
FUG0060	U-45D - NEOACIDS LOADING RACK FUGITIVE EMISSIONS	—	—	—	—	8760 hr/yr (All Year)
RLP0829	V-294 - AT01, BR-01, CR-01, DT-01, DT-02 VENTS	—	—	—	—	(None Specified)
RLP0830	V-389 - AIM STEAM STRIPPER(ET-01)	—	—	—	—	(None Specified)
RLP0831	V-422 - ALUMINOUS WATER DRUM(ED-02)	—	—	—	—	(None Specified)

INVENTORIES

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20070022

Permit Number: 2156-V1

Air - Title V Regular Permit Renewal

## Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
ESCOREZ 1000 (E-1000) Unit							
EQT0908 C-02E - GFLA-3 COOLING TOWER (E-1000)		33		68		47	
EQT0909 C-03D - GFLA-9 COOLING TOWER (E-1000)		24		46		44	
EQT0910 M-01Q - ALUMINOUS WATER LOADING						10	
EQT0912 T-1305 - RESIN/SOLVENT STORAGE TANK							49
EQT0913 T-1306 - RESIN/SOLVENT STORAGE TANK							49
EQT0914 T-1309 - FEED STORAGE TANK						25	
EQT0915 T-1391 - FEED STORAGE TANK							34.5
EQT0916 T-1775 - RAFFINATE STORAGE TANK						30	
EQT0917 T-1955 - RAFFINATE STORAGE TANK						38	
EQT0918 T-1966 - FEED STORAGE TANK (IFR)							48
EQT0919 T-1967 - FEED STORAGE TANK (IFR)							48
EQT0920 T-21 - ALUMINOUS WATER STORAGE TANK							19
EQT0921 T-22 - ALUMINOUS WATER STORAGE TANK							19
EQT0922 T-24 - ALUMINOUS WATER STORAGE TANK							20
EQT0923 T-3087 - SAMPLE COLLECTION DRUM (CD-11)					.03		4
EQT0924 V-194 - CATALYST STORAGE & TRANSFER (CB-01AB, CB-02, CB-03, CB-04, CB-05)				.04	.5		80
							90

Relationships:

## Subject Item Groups:

ID	Group Type	Group Description
FCS0006	Process Group	M-50 - SECONDARY WASTEWATER EMISSIONS (E-1000)
UNF0007	Unit or Facility Wide	FACILITY WIDE - ESCOREZ 1000 (E-1000) Unit

## Group Membership:

ID	Description	Member of Groups
EQT0911	M-50A - WASTEWATER STREAMS TO WILIA	PCS0000000006
EQT0925	M-50B - WASTEWATER STREAMS TO AIM STRIPPER	PCS0000000006
EQT0926	M-50C - WASTEWATER STREAMS TO ALUMINOUS WATER DRUM	PCS0000000006
EQT0927	M-50D - WASTEWATER STREAMS TO AW1	PCS0000000006

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:	Air Contaminant Source	Multipier	Units Of Measure
<input type="checkbox"/> Fee Number			Page 2 of 3

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INVENTORIES

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
 Activity Number: PER20070022  
 Permit Number: 2156-V1  
 Air - Title V Regular Permit Renewal

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0690	Chemical and Chemical Prep. N.E.C. (Rated Capacity)	182	MMLB/YR

SIC Codes:

2869. --	Industrial organic chemicals, nec	UNF007
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EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20070022

Permit Number: 2156-V1

Air - Title V Regular Permit Renewal

Subject Item	PM10			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
<b>ESCOREZ 1000 (E-1000) Unit</b>						
EQT 0908 C-98t	0.34	0.66	1.51	0.45		1.95
EQT 0909 C-910	0.1	0.24	0.46	0.13		0.59
EQT 0910 M-910				0.002		0.01
EQT 0912 T-105				19.6		2.35
EQT 0913 T-106				19.6		2.35
EQT 0914 T-109				6.9		0.83
EQT 0915 T-1391				0.11		0.47
EQT 0916 T-1775				0.73		3.21
EQT 0917 T-1955				17.1		2.05
EQT 0918 T-1966				0.83		3.63
EQT 0919 T-1967				0.83		3.63
EQT 0920 T-21				0.002		0.01
EQT 0921 T-22				0.002		0.01
EQT 0922 T-24				0.002		0.01
EQT 0923 T-3087				0.002		0.01
EQT 0924 V-194	0.08	9.75	0.37			
FUG 0058 U-105				3.7		16.25
FUG 0059 U-19A				0.95		4.18
FUG 0060 U-450				0.04		0.19
PCS 0006 M-50				0.02		0.1

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20070022

Permit Number: 2156-V1

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0908 C-02E	Benzene	0.01		0.06
	Ethyl benzene	0.002		0.01
	Styrene	0.01		0.04
	Toluene	0.002		0.01
	Xylene (mixed isomers)	0.003		0.01
	n-Hexane	0.03		0.11
EQT 0909 C-03D	Benzene	0.004		0.02
	Styrene	0.002		0.01
	Toluene	0.002		0.01
	Xylene (mixed isomers)	0.002		0.01
	n-Hexane	0.01		0.03
EQT 0912 T-1305	Benzene	0.08		0.01
	Styrene	0.01		0.01
	Toluene	0.01		0.01
	Xylene (mixed isomers)	0.02		0.01
	n-Hexane	0.73		0.09
EQT 0913 T-1306	Benzene	0.08		0.01
	Styrene	0.01		0.01
	Toluene	0.01		0.01
	Xylene (mixed isomers)	0.02		0.01
	n-Hexane	0.73		0.09
EQT 0915 T-1391	Styrene	0.11		0.47
EQT 0916 T-1775	Benzene	0.002		0.01
	n-Hexane	0.01		0.06
EQT 0917 T-1955	Benzene	0.04		0.01
	Toluene	0.01		0.01
	n-Hexane	1.4		0.17
EQT 0918 T-1966	Benzene	0.003		0.01
	Toluene	0.003		0.01
	n-Hexane	0.04		0.17
EQT 0919 T-1967	Benzene	0.003		0.01
	Toluene	0.003		0.01
	n-Hexane	0.04		0.17
EQT 0924 V-194	Hydrochloric acid	0.23	1	1

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20070022

Permit Number: 2156-V1

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
FUG 0058 U-105	1,3-Butadiene	0.001		0.004
	2,2,4-Trimethylpentane	0.002		0.01
	Ammonia	0.002		0.01
	Benzene	0.15		0.66
	Cumene	0.002		0.01
	Ethyl benzene	0.002		0.01
	Styrene	0.06		0.28
	Toluene	0.01		0.03
	Xylene (mixed isomers)	0.02		0.1
	n-Hexane	0.21		0.91
FUG 0059 U-49A	1,3-Butadiene	0.001		0.002
	2,2,4-Trimethylpentane	0.002		0.01
	Benzene	0.04		0.19
	Cumene	0.002		0.01
	Ethyl benzene	0.002		0.01
	Methanol	0.002		0.01
	Styrene	0.07		0.31
	Toluene	0.003		0.01
	Xylene (mixed isomers)	0.01		0.06
	n-Hexane	0.06		0.26
FUG 0060 U-45D	Benzene	0.002		0.01
	Styrene	0.04		0.19
	Toluene	0.04		0.19
	n-Hexane	0.002		0.01
PCS 0006 M-50	Benzene	0.002		0.01
	Styrene	0.002		0.01
	Xylene (mixed isomers)	0.002		0.01
	n-Hexane	0.002		0.01
UNF 0007 FACILITY WIDE	1,3-Butadiene			0.01
	2,2,4-Trimethylpentane			0.02
	Ammonia			0.01
	Benzene			1.01
	Cumene			0.02
	Ethyl benzene			0.03

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20070022

Permit Number: 2156-V1

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0007 FACILITY WIDE	Hydrochloric acid			1
	Methanol			0.01
	Styrene			1.33
	Toluene			0.31
	Xylene (mixed isomers)			0.21
	n-Hexane			2.08

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
 Activity Number: PER20070022  
 Permit Number: 2156-V1  
 Air - Title V Regular Permit Renewal

Group: PCS0006 M-50: SECONDARY WASTEWATER EMISSIONS (E-1000)

Group Member: EQT0911 EQT0925 EQT0926 EQT0927

EQT0911 M-50A: WASTEWATER STREAMS TO WILA

- 1 [40 CFR 61.346(b)(1)]
- 2 [40 CFR 61.346(b)(4)]

Equip with water seal controls or a tightly sealed cap or plug. Subpart FF. [40 CFR 61.346(b)(1)]  
 Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Inspect equipment installed in accordance with 40 CFR 61.346(b)(1), (b)(2), or (b)(3) as specified in 40 CFR 61.346(b)(4)(i) through (b)(4)(iv). Subpart FF. [40 CFR 61.346(b)(4)]

Which Months: All Year Statistical Basis: None specified

Make a first attempt at repair as soon as practicable, but not later than 15 calendar days after a broken seal, gap, crack, or other problem is identified, except as specified in 40 CFR 61.350. Subpart FF. [40 CFR 61.346(b)(5)]  
 Waste stream: Benzene < 10 ppmw (flow-weighted). Subpart FF. [40 CFR 61.348(a)(1)(i)]

Which Months: All Year Statistical Basis: Annual average

Waste stream: Benzene >= 99 % removal efficiency on a mass basis. Subpart FF. [40 CFR 61.348(a)(1)(ii)]  
 Which Months: All Year Statistical Basis: None specified

Demonstrate that each treatment process or wastewater treatment system unit, except as specified in 40 CFR 61.348(d), achieves the appropriate conditions specified in 40 CFR 61.248(a) or (b) in accordance with the requirements in 40 CFR 61.348(c)(1) and (c)(2). Subpart FF. [40 CFR 61.348(c)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

Comply with the reporting requirements in 40 CFR 60.115b. Subpart FF. [40 CFR 61.357(f)]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
 Compliance with 40 CFR 61 Subpart FF (NESHAP FF) is determined as MACT.

EQT0925 M-50B: WASTEWATER STREAMS TO AIM STRIPPER

- 10 [40 CFR 61.346(b)(1)]
- 11 [40 CFR 61.346(b)(4)]

Equip with water seal controls or a tightly sealed cap or plug. Subpart FF. [40 CFR 61.346(b)(1)]  
 Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Inspect equipment installed in accordance with 40 CFR 61.346(b)(1), (b)(2), or (b)(3) as specified in 40 CFR 61.346(b)(4)(i) through (b)(4)(iv). Subpart FF. [40 CFR 61.346(b)(4)]

Which Months: All Year Statistical Basis: None specified

Make a first attempt at repair as soon as practicable, but not later than 15 calendar days after a broken seal, gap, crack, or other problem is identified, except as specified in 40 CFR 61.350. Subpart FF. [40 CFR 61.346(b)(5)]  
 Waste stream: Benzene < 10 ppmw (flow-weighted). Subpart FF. [40 CFR 61.348(a)(1)(i)]

Which Months: All Year Statistical Basis: Annual average

Waste stream: Benzene >= 99 % removal efficiency on a mass basis. Subpart FF. [40 CFR 61.348(a)(1)(ii)]  
 Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20070022

Permit Number: 2156-V1

Air - Title V Regular Permit Renewal

**Group: PCS0006 M-50: SECONDARY WASTEWATER EMISSIONS (E-100)****EQT0925 M-50B: WASTEWATER STREAMS TO AIM STRIPPER**

- 15 [40 CFR 61.348(c)] Demonstrate that each treatment process or wastewater treatment system unit, except as specified in 40 CFR 61.348(d), achieves the appropriate conditions specified in 40 CFR 61.248(a) or (b) in accordance with the requirements in 40 CFR 61.348(c)(1) and (c)(2). Subpart FF. [40 CFR 61.348(c)]
- 16 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 17 [40 CFR 61.357(f)] Comply with the reporting requirements in 40 CFR 60.115b. Subpart FF. [40 CFR 61.357(f)]
- 18 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with 40 CFR 61 Subpart FF (NESHAP FF) is determined as MACT.

**EQT0926 M-50C: WASTEWATER STREAMS TO ALUMINOUS WATER DRUM**

- 19 [40 CFR 61.346(b)(1)] Equip with water seal controls or a tightly sealed cap or plug. Subpart FF. [40 CFR 61.346(b)(1)]
- 20 [40 CFR 61.346(b)(4)] Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Inspect equipment installed in accordance with 40 CFR 61.346(b)(1), (b)(2), or (b)(3) as specified in 40 CFR 61.346(b)(4)(i) through (b)(4)(iv). Subpart FF. [40 CFR 61.346(b)(4)]
- 21 [40 CFR 61.346(b)(5)] Which Months: All Year Statistical Basis: None specified Make a first attempt at repair as soon as practicable, but not later than 15 calendar days after a broken seal, gap, crack, or other problem is identified, except as specified in 40 CFR 61.350. Subpart FF. [40 CFR 61.346(b)(5)]
- 22 [40 CFR 61.348(a)(1)(i)] Waste stream: Benzene < 10 ppmw (flow-weighted). Subpart FF. [40 CFR 61.348(a)(1)(i)]
- 23 [40 CFR 61.348(a)(1)(ii)] Which Months: All Year Statistical Basis: Annual average
- 24 [40 CFR 61.348(c)] Waste stream: Benzene >= 99 % removal efficiency on a mass basis. Subpart FF. [40 CFR 61.348(a)(1)(ii)]
- 25 [40 CFR 61.356] Which Months: All Year Statistical Basis: None specified Demonstrate that each treatment process or wastewater treatment system unit, except as specified in 40 CFR 61.348(d), achieves the appropriate conditions specified in 40 CFR 61.248(a) or (b) in accordance with the requirements in 40 CFR 61.348(c)(1) and (c)(2). Subpart FF. [40 CFR 61.348(c)]
- 26 [40 CFR 61.357(f)] Equipment/operational data recordkeeping by electronic or hard-copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 27 [LAC 33:III.5109.A] Comply with the reporting requirements in 40 CFR 60.115b. Subpart FF. [40 CFR 61.357(f)]
- Compliance of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with 40 CFR 61 Subpart FF (NESHAP FF) is determined as MACT.

**EQT0927 M-50D: WASTEWATER STREAMS TO AWT**

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
 Activity Number: PER20070022  
 Permit Number: 2156-V1  
 Air - Title V Regular Permit Renewal

Group: PCS0006 M-50: SECONDARY WASTEWATER EMISSIONS (E-1000)EQT0927 M-50D: WASTEWATER STREAMS TO AWT

28 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ  
 Compliance with 40 CFR 61 Subpart FF (NESHAP FF) is determined as MACT.

EQT0908 C-02E: GFLA-3 COOLING TOWER (E-1000)

29 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
 Equip with gas detectors and alarms to alert unit operations when gas collects in the vapor space of the cooling tower water return line. Repair all detected leaks as soon as practical. Above detection system for leaks is determined as MACT.

EQT0909 C-03D: GFLA-9 COOLING TOWER (E-1000)

30 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
 Equip with gas detectors and alarms to alert unit operations when gas collects in the vapor space of the cooling tower water return line. Repair all detected leaks as soon as practical. Above detection system for leaks is determined as MACT.

EQT0910 M-01Q: ALUMINOUS WATER LOADING

31 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT)  
 No control is determined as MACT.

EQT0912 T-1305: RESIN/SOLVENT STORAGE TANK

32 [40 CFR 63.2470(a)]

Reduce total organic HAP emissions by venting emissions through a closed-vent system to a flare. Subpart FFFF. [40 CFR 63.2470(a)]  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
 Compliance with 40 CFR 63 Subpart FFFF (MON) is determined as MACT.

EQT0913 T-1306: RESIN/SOLVENT STORAGE TANK

35 [40 CFR 63.2470(a)]

Reduce total organic HAP emissions by venting emissions through a closed-vent system to a flare. Subpart FFFF. [40 CFR 63.2470(a)]  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.

VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.  
 Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
 Activity Number: PER20070022  
 Permit Number: 2156-V1  
 Air - Title V Regular Permit Renewal

**EQT0913 T-1306: RESIN/SOLVENT STORAGE TANK**

- 38 [LAC 33:III.2|03.E] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2|03.I.1 - 7, as applicable.  
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
 Compliance with 40 CFR 63 Subpart FFFF (MON) is determined as MACT.

**EQT0914 T-1309: FEED STORAGE TANK**

- 41 [40 CFR 63.2470(a)] Reduce total organic HAP emissions by venting emissions through a closed-vent system to a flare. Subpart FFFF. [40 CFR 63.2470(a)]  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2525(a) through (K), as applicable. Subpart FFFF.  
 VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.  
 Which Months: All Year Statistical Basis: None specified  
 42 [40 CFR 63.2425] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2|03.I.1 - 7, as applicable.  
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
 Compliance with 40 CFR 63 Subpart FFFF (MON) is determined as MACT.

**EQT0916 T-1775: RAFFINATE STORAGE TANK**

- 47-[40 CFR 60.112b(a)(1)(i)] Equip with a fixed roof in combination with an internal floating roof. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(1)(i)]  
 Equip internal floating roof with two seals mounted secondary above the primary so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The primary seal may be vapor-mounted, but both must be continuous. Subpart Kb. [40 CFR 60.112b(a)(1)(ii)(B)]  
 Tank roof and seals monitored by visual inspection/determination annually. Inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(2)]  
 Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
 Activity Number: PER20070022  
 Permit Number: 2156-V1  
 Air - Title V Regular Permit Renewal

**EQT0916 T-1775: RAFFINATE STORAGE TANK**

- 50 [40 CFR 60.113b(a)(3)(ii)] Tank roof and seals monitored by visual inspection/determination annually as specified in 40 CFR 60.113b(a)(2). Subpart Kb. [40 CFR 60.113b(a)(3)(ii)]
- 51 [40 CFR 60.113b(a)(4)] Which Months: All Year Statistical Basis: None specified Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(4)]
- 52 [40 CFR 60.113b(a)(5)] Which Months: All Year Statistical Basis: None specified Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(a)(1) and (a)(4) to afford DEQ an opportunity to have an observer present. If the inspection required by paragraph 40 CFR 60.113b(a)(4) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(a)(5)]
- 53 [40 CFR 60.115b(a)(2)] Inspection records recordkeeping by electronic or hard copy upon each occurrence of inspection, per 40 CFR 60.113b(a)(1) through (4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(a)(2)]
- 54 [40 CFR 60.115b(a)(3)] Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]
- 55 [40 CFR 60.115b(a)(4)] Submit a report: Due to DEQ within 30 days of each inspection required by 40 CFR 60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 40 CFR 60.113b(a)(3)(ii). The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR 61.112b(a)(1) or 40 CFR 60.113b(a)(3) and list each repair made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(4)]
- 56 [40 CFR 60.116b(b)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
- 57 [40 CFR 60.116b(c)] VOL storage data recordkeeping by electronic or hard copy at the approved frequency. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]
- 58 [LAC 33-III 2|03.B] Equip with a submerged fill pipe.
- 59 [LAC 33-III.2|03.C] Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place.
- 60 [LAC 33-III.2|03.D] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33-III.2|03.1.1 - 7, as applicable.

**SPECIFIC REQUIREMENTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
 Activity Number: PER20070022  
 Permit Number: 2156-V1  
 Air - Title V Regular Permit Renewal

**EQT0916 T-1775: RAFFINATE STORAGE TANK**

61 [LAC 33.III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
 Compliance with 40 CFR 60 Subpart Kb is determined as MACT.

**EQT0917 T-1955: RAFFINATE STORAGE TANK**

- 62 [40 CFR 63.2470(a)] Reduce total organic HAP emissions by venting emissions through a closed-vent system to a flare. Subpart FFFF. [40 CFR 63.2470(a)]  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.  
 VOC, Total  $\geq$  95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.  
 Which Months: All Year Statistical Basis: None specified  
 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33.III.2103.I.1 - 7, as applicable.  
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
 Compliance with 40 CFR 63 Subpart FFFF (MON) is determined as MACT.

**EQT0918 T-1966: FEED STORAGE TANK (IFR)**

- 63 [40 CFR 63.2525] Equip with a submerged fill pipe.  
 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place.  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33.III.2103.I.1 - 7, as applicable.  
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
 Compliance with LAC 33.III.2103 is determined as MACT.

**EQT0919 T-1967: FEED STORAGE TANK (IFR)**

- 64 [LAC 33.III.2103.E.] Equip with a submerged fill pipe.  
 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place.  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33.III.2103.I.1 - 7, as applicable.  
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
 Compliance with LAC 33.III.2103 is determined as MACT.

**SPECIFIC REQUIREMENTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
 Activity Number: PER20070022  
 Permit Number: 2156-V1  
 Air - Title V Regular Permit Renewal

**EQT0919 T-1967: FEED STORAGE TANK (IFR)**

75 [LAC 33:III 5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
 Compliance with LAC 33:III.2103 is determined as MACT.

**EQT0920 T-21: ALUMINOUS WATER STORAGE TANK**

76 [LAC 33:III 5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
 No control is determined as MACT.

**EQT0921 T-22: ALUMINOUS WATER STORAGE TANK**

77 [LAC 33:III 5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
 No control is determined as MACT.

**EQT0922 T-24: ALUMINOUS WATER STORAGE TANK**

78 [LAC 33:III 5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
 No control is determined as MACT.

**EQT0923 T-3087: SAMPLE COLLECTION DRUM (CD-11)**

79 [40 CFR 61.343(a)(1)(i)(A)]

Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF [40 CFR 61.343(a)(1)(i)(A)]

80 [40 CFR 61.343(a)(1)(i)(B)]

Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF [40 CFR 61.343(a)(1)(i)(B)]

81 [40 CFR 61.343(a)(1)]

Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF [40 CFR 61.343(a)(1)]

82 [40 CFR 61.343(c)]

Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF [40 CFR 61.343(c)]

83 [40 CFR 61.343(d)]

Which Months: All Year Statistical Basis: None specified  
 Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF [40 CFR 61.343(d)]

84 [40 CFR 61.349(a)(1)(i)]

Closed-vent system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF [40 CFR 61.349(a)(1)(i)]

85 [40 CFR 61.349(a)(1)(ii)]

Closed-vent system (bypass lines): Flow monitored by flow indicator once every 15 minutes, except as provided in 40 CFR 61.349(a)(1)(ii)(B).  
 Install the flow indicator at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere.  
 Subpart FF [40 CFR 61.349(a)(1)(ii)]

Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
 Activity Number: PER20070022  
 Permit Number: 2156-V1  
 Air - Title V Regular Permit Renewal

**EQT0923 T-3087: SAMPLE COLLECTION DRUM (CD-11)**

- 86 [40 CFR 61.349(a)(1)(iii)] Closed-vent system (bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Subpart FF. [40 CFR 61.349(a)(1)(ii)]
- 87 [40 CFR 61.349(a)(1)(iii)] Closed-vent system: Ensure that all gauging and sampling devices are gas-tight except when gauging or sampling is taking place. Subpart FF. [40 CFR 61.349(a)(1)(iii)]
- 88 [40 CFR 61.349(a)(2)(iii)] Comply with the requirements of 40 CFR 60.18. Subpart FF. [40 CFR 61.349(a)(2)(iii)]
- 89 [40 CFR 61.349(b)] Operate at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device. Subpart FF. [40 CFR 61.349(b)]
- 90 [40 CFR 61.349(c)] Demonstrate that each control device, except for a flare, achieves the appropriate conditions specified in 40 CFR 61.349(a)(2) using one of methods specified in 40 CFR 61.349(c)(1) and (c)(2). Subpart FF. [40 CFR 61.349(c)]
- 91 [40 CFR 61.349(f)] Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(f)]
- 92 [40 CFR 61.349(g)] Which Months: All Year Statistical Basis: None specified Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]
- 93 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 94 [40 CFR 61.357(f)] Comply with the reporting requirements in 40 CFR 60.115b. Subpart FF. [40 CFR 61.357(f)]
- 95 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with 40 CFR 61 Subpart FF (NESHAP FF) is determined as MACT.

**EQT0924 V-194: CATALYST STORAGE & TRANSFER (CB-01A/B, CB-02, CB-03, CB-04, CB-05)**

- 96 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- 97 [LAC 33:III.1311.B] Total suspended particulate  $\leq$  21.7 lb/hr. The rate of emission shall be the total of all emission points from the source.
- 98 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
- Which Months: All Year Statistical Basis: None specified

**EQT0932 T-1964: WASTEWATER STORAGE TANK**

- 99 [40 CFR 61.343(a)(1)(i)(A)] Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(n). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]

**SPECIFIC REQUIREMENTS**

**AI ID:** 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
**Activity Number:** PER20070022  
**Permit Number:** 2156-V1  
**Air - Title V Regular Permit Renewal**

**EQT0932 T-1964: WASTEWATER STORAGE TANK**

- Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]
- Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]
- Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
- Which Months: All Year Statistical Basis: None specified
- Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- Meet the requirements specified in 40 CFR 63.343(e)(1) through (e)(4). Subpart FF. [40 CFR 61.343(e)]
- Closed-vent system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)]
- Closed-vent system (bypass lines): Flow monitored by flow indicator once every 15 minutes, except as provided in 40 CFR 61.349(a)(1)(ii)(B).
- Install the flow indicator at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere. Subpart FF. [40 CFR 61.349(a)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Closed-vent system (bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Subpart FF. [40 CFR 61.349(a)(1)(ii)]
- Closed-vent system: Ensure that all gauging and sampling devices are gas-tight except when gauging or sampling is taking place. Subpart FF. [40 CFR 61.349(a)(1)(iii)]
- Comply with the requirements of 40 CFR 60.18. Subpart FF. [40 CFR 61.349(a)(2)(iii)]
- Operate at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device. Subpart FF. [40 CFR 61.349(b)]
- Demonstrate that each control device, except for a flare, achieves the appropriate conditions specified in 40 CFR 61.349(a)(2) using one of methods specified in 40 CFR 61.349(c)(1) and (c)(2). Subpart FF. [40 CFR 61.349(c)]
- Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Include inspection of ductwork and piping and connection to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(f)]
- Which Months: All Year Statistical Basis: None specified
- Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

**SPECIFIC REQUIREMENTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20070022

Permit Number: 2156-V1

Air - Title V Regular Permit Renewal

**EQT0932 T-1964: WASTEWATER STORAGE TANK**

- 115 [40 CFR 61.357(f)] Comply with the reporting requirements in 40 CFR 60.115b. Subpart FF. [40 CFR 61.357(f)]  
 116 [LAC 33:III.2103.E:1] VOC, Total  $\geq$  95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.  
 Which Months: All Year Statistical Basis: None specified  
 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.1.1 - 7, as applicable.  
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
 Compliance with 40 CFR 61 Subpart FF (NESHAP FF) is determined as MACT.
- 117 [LAC 33:III.2103.E]  
 118 [LAC 33:III.2103.I]  
 119 [LAC 33:III.5109.A]

**EQT0933 T-1969: E-1000 RESIN STORAGE TANK**

- 120 [40 CFR 64.9(a)] Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]  
 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]  
 This source will comply with all applicable provisions of the Compliance Assurance Monitoring requirements.  
 Which Months: All Year Statistical Basis: None specified  
 VOC, Total  $\geq$  95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.  
 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.1.1 - 7, as applicable.  
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
 Compliance with LAC 33:III.2103 is determined as MACT.
- 121 [40 CFR 64.9(b)(1)]  
 122 [40 CFR 64.]  
 123 [LAC 33:III.2103.E:1]  
 124 [LAC 33:III.2103.E]  
 125 [LAC 33:III.2103.I]  
 126 [LAC 33:III.5109.A]

**EQT0934 T-3004: BLOWDOWN DRUM(ED-01)**

- 127 [40 CFR 61.343(a)(1)(i)(A)] Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]

**SPECIFIC REQUIREMENTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
 Activity Number: PER20070022  
 Permit Number: 2156-V1  
 Air - Title V Regular Permit Renewal

**EQT0934 T-3004: BLOWDOWN DRUM(ED-01)**

128 [40 CFR 61.343(a)(1)(ii)(B)]

Fixed roof: Maintain in each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]

Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]

Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]

Which Months: All Year Statistical Basis: None specified

Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]

Meet the requirements specified in 40 CFR 63.343(e)(1) through (e)(4). Subpart FF. [40 CFR 61.343(c)]

Closed-vent system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)]

Closed-vent system (bypass lines): Flow monitored by flow indicator once every 15 minutes, except as provided in 40 CFR 61.349(a)(1)(ii)(B). Install the flow indicator at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere. Subpart FF. [40 CFR 61.349(a)(1)(ii)]

Which Months: All Year Statistical Basis: None specified

Closed-vent system (bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Subpart FF. [40 CFR 61.349(a)(1)(ii)]

Closed-vent system: Ensure that all gauging and sampling devices are gas-tight except when gauging or sampling is taking place. Subpart FF. [40 CFR 61.349(a)(1)(ii)]

Comply with the requirements of 40 CFR 60.18. Subpart FF. [40 CFR 61.349(a)(2)(iii)]

Operate at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device. Subpart FF. [40 CFR 61.349(b)]

Demonstrate that each control device, except for a flare, achieves the appropriate conditions specified in 40 CFR 61.349(a)(2) using one of methods specified in 40 CFR 61.349(c)(1) and (c)(2). Subpart FF. [40 CFR 61.349(c)]

Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(f)]

Which Months: All Year Statistical Basis: None specified

Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF

**SPECIFIC REQUIREMENTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
 Activity Number: PER20070022  
 Permit Number: 2156-V1  
 Air - Title V Regular Permit Renewal

**EQT0934 T-3004: BLOWDOWN DRUM(ED-01)**

- 143 [40 CFR 61.357(f)] Comply with the reporting requirements in 40 CFR 60.115b. Subpart FF. [40 CFR 61.357(f)]  
 144 [LAG 33:III.2103.E.1] VOC, Total  $\geq 95\%$  control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.  
 Which Months: All Year Statistical Basis: None specified
- 145 [LAC 33:III.2103.E] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- 146 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 147 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- Compliance with 40 CFR 61 Subpart FF (NESHAP FF) is determined as MACT.

**EQT0935 T-3006: AIM STEAM STRIPPER FEED DRUM(ED-03)**

- 148 [40 CFR 61.343(a)(1)(i)(A)] Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
- 149 [40 CFR 61.343(a)(1)(i)(B)] Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]
- 150 [40 CFR 61.343(a)(1)] Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]
- 151 [40 CFR 61.343(c)] Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
- 152 [40 CFR 61.343(d)] Which Months: All Year Statistical Basis: None specified
- 153-[40 CFR 61.343(e)] Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- 154 [40 CFR 61.349(a)(1)(i)] Meet the requirements specified in 40 CFR 63.343(e)(1), through (e)(4). Subpart FF. [40 CFR 61.343(e)]
- 155 [40 CFR 61.349(a)(1)(ii)] Closed-vent system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)]
- 156 [40 CFR 61.349(a)(1)(iii)] Closed-vent system (bypass lines): Flow monitored by flow indicator once every 15 minutes, except as provided in 40 CFR 61.349(a)(1)(ii)(B).
- 157 [40 CFR 61.349(a)(1)(iii)] Install the flow indicator at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere. Subpart FF. [40 CFR 61.349(a)(1)(ii)]
- 158 [40 CFR 61.349(a)(1)(iv)] Which Months: All Year Statistical Basis: None specified
- 159 [40 CFR 61.349(a)(1)(v)] Closed-vent system (bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Subpart FF. [40 CFR 61.349(a)(1)(iv)]
- 160 [40 CFR 61.349(a)(1)(vi)] Closed-vent system: Ensure that all gauging and sampling devices are gas-tight except when gauging or sampling is taking place. Subpart FF. [40 CFR 61.349(a)(1)(vi)]

**SPECIFIC REQUIREMENTS**

**AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant**

**Activity Number: PER20070022**

**Permit Number: 2156-V1**

**Air - Title V Regular Permit Renewal**

**EQT0935 T-3006: AIM STEAM STRIPPER FEED DRUM(ED-03)**

158 [40 CFR 61.349(a)(2)(iii)]

159 [40 CFR 61.349(b)]

160 [40 CFR 61.349(c)]

161 [40 CFR 61.349(f)]

Comply with the requirements of 40 CFR 60.18. Subpart FF. [40 CFR 61.349(a)(2)(iii)]

Operate at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device. Subpart FF. [40 CFR 61.349(b)] Demonstrate that each control device, except for a flare, achieves the appropriate conditions specified in 40 CFR 61.349(a)(2) using one of methods specified in 40 CFR 61.349(c)(1) and (c)(2). Subpart FF. [40 CFR 61.349(c)]

Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(f)]

Which Months: All Year Statistical Basis: None specified

Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

Comply with the reporting requirements in 40 CFR 60.115b. Subpart FF. [40 CFR 61.357(f)]

VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.

Which Months: All Year Statistical Basis: None specified

Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33.III.2103.I.1 - 7, as applicable.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with 40 CFR 61 Subpart FF (NESHAP FF) is determined as MACT.

**EQT0936 T-3007: BELOWDOWN DRUM(ED-05)**

169 [40 CFR 61.343(a)(1)(i)(A)]

Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]

Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]

Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]

**SPECIFIC REQUIREMENTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20070022

Permit Number: 2156-Y1

Air - Title V Regular Permit Renewal

**EQT0936 T-3007: BLOWDOWN DRUM(ED-05)**

172 [40 CFR 61.343(c)]  
 Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]  
 Which Months: All Year Statistical Basis: None specified

173 [40 CFR 61.343(d)]  
 Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.343(d).  
 Subpart FF. [40 CFR 61.343(d)]

174 [40 CFR 61.343(e)]  
 Meet the requirements specified in 40 CFR 63.343(e)(1) through (e)(4). Subpart FF. [40 CFR 61.343(e)]

175 [40 CFR 61.349(a)(1)(i)]  
 Closed-vent system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)]

176 [40 CFR 61.349(a)(1)(ii)]  
 Closed-vent system (bypass lines): Flow monitored by flow indicator once every 15 minutes, except as provided in 40 CFR 61.349(a)(1)(ii)(B).

Install the flow indicator at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere.

Subpart FF. [40 CFR 61.349(a)(1)(ii)]

Which Months: All Year Statistical Basis: None specified

177 [40 CFR 61.349(a)(1)(ii)]  
 Closed-vent system (bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Subpart FF. [40 CFR 61.349(a)(1)(ii)]

178 [40 CFR 61.349(a)(1)(iii)]  
 Closed-vent system: Ensure that all gauging and sampling devices are gas-tight except when gauging or sampling is taking place. Subpart FF. [40 CFR 61.349(a)(1)(iii)]

179 [40 CFR 61.349(a)(2)(iii)]  
 Comply with the requirements of 40 CFR 60.18. Subpart FF. [40 CFR 61.349(a)(2)(iii)]

180 [40 CFR 61.349(b)]  
 Operate at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device. Subpart FF. [40 CFR 61.349(b)]

181 [40 CFR 61.349(c)]  
 Demonstrate that each control device, except for a flare, achieves the appropriate conditions specified in 40 CFR 61.349(a)(2) using one of methods specified in 40 CFR 61.349(c)(1) and (c)(2). Subpart FF. [40 CFR 61.349(c)]

182 [40 CFR 61.349(f)]  
 Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(f)]

Which Months: All Year Statistical Basis: None specified

183 [40 CFR 61.349(g)]  
 Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]

184 [40 CFR 61.356]  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

185 [40 CFR 61.357(f)]  
 Comply with the reporting requirements in 40 CFR 60.115b. Subpart FF. [40 CFR 61.357(f)]

186 [LAC 33:III.2103.E.1]  
 VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.  
 Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
 Activity Number: PER20070022  
 Permit Number: 2156-V1  
 Air - Title V Regular Permit Renewal

**EQT0936 T-3007: BLOWDOWN DRUM(ED-05)**

Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.1.i - 7, as applicable.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.

Compliance with 40 CFR 61 Subpart FF (NESHAP FF) is determined as MACT.

**EQT0937 T-3008: WASTEWATER HEADER DRUM(ED-06)**

187 [40 CFR 61.343(a)(1)(i)(A)]

Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]

188 [LAC 33:III.2103.1]

Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]

189 [LAC 33:III.5109.A]

Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]

190 [40 CFR 61.343(a)(1)(i)(B)]

Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]

191 [40 CFR 61.343(a)(1)(i)(C)]

Which Months: All Year Statistical Basis: None specified

192 [40 CFR 61.343(a)(1)]

Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]

193 [40 CFR 61.343(c)]

Meet the requirements specified in 40 CFR 63.343(e)(1) through (e)(4). Subpart FF. [40 CFR 61.343(e)]

194 [40 CFR 61.343(d)]

Closed-vent system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)]

195 [40 CFR 61.343(e)]

Closed-vent system (bypass lines): Flow monitored by flow indicator once every 15 minutes, except as provided in 40 CFR 61.349(a)(1)(ii)(B).

196 [40 CFR 61.349(a)(1)(i)]

Install the flow indicator at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere. Subpart FF. [40 CFR 61.349(a)(1)(ii)]

197 [40 CFR 61.349(a)(1)(ii)]

Which Months: All Year Statistical Basis: None specified

198 [40 CFR 61.349(a)(1)(ii)]

Closed-vent system (bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Subpart FF. [40 CFR 61.349(a)(1)(ii)]

199 [40 CFR 61.349(a)(1)(iii)]

Closed-vent system: Ensure that all gauging and sampling devices are gas-tight except when gauging or sampling is taking place. Subpart FF. [40 CFR 61.349(a)(1)(iii)]

200 [40 CFR 61.349(a)(2)(iii)]

Comply with the requirements of 40 CFR 60.18. Subpart FF. [40 CFR 61.349(a)(2)(iii)]

201 [40 CFR 61.349(b)]

Operate at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device. Subpart FF. [40 CFR 61.349(b)]

**SPECIFIC REQUIREMENTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20070022

Permit Number: 2156-V1

Air - Title V Regular Permit Renewal

**EQT0937 T-3008: WASTEWATER HEADER DRUM(ED-06)**

- 202 [40 CFR 61.349(c)] Demonstrate that each control device, except for a flare, achieves the appropriate conditions specified in 40 CFR 61.349(a)(2) using one of methods specified in 40 CFR 61.349(c)(1) and (c)(2). Subpart FF. [40 CFR 61.349(c)]
- 203 [40 CFR 61.349(f)] Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter.-Include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(f)]
- Which Months: All Year Statistical Basis: None specified  
Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n); as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- Comply with the reporting requirements in 40 CFR 60.115b. Subpart FF. [40 CFR 61.357(f)]
- VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.  
Which Months: All Year Statistical Basis: None specified  
Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.1.1 - 7, as applicable.  
Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
Compliance with 40 CFR 61 Subpart FF (NESHAP FF) is determined as MACT.

**EQT0938 T-3009: KNOCKOUT POT(FD-01)**

- 211 [40 CFR 61.343(a)(1)(i)(A)] Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
- 212 [40 CFR 61.343(a)(1)(i)(B)] Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]
- 213 [40 CFR 61.343(a)(1)] Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]
- 214 [40 CFR 61.343(c)] Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]  
Which Months: All Year Statistical Basis: None specified

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- 21.5 [40 CFR 61.343(d)] Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- 21.6 [40 CFR 61.343(e)] Meet the requirements specified in 40 CFR 63.343(e)(1) through (e)(4). Subpart FF. [40 CFR 61.343(e)]
- 21.7 [40 CFR 61.349(a)(1)(i)] Closed-event system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)]
- 21.8 [40 CFR 61.349(a)(1)(ii)] Closed-event system (bypass lines): Flow monitored by flow indicator once every 15 minutes, except as provided in 40 CFR 61.349(a)(1)(ii)(B). Install the flow indicator at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere. Subpart FF. [40 CFR 61.349(a)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 21.9 [40 CFR 61.349(a)(1)(ii)] Closed-event system (bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Subpart FF. [40 CFR 61.349(a)(1)(ii)]
- 22.0 [40 CFR 61.349(a)(1)(iii)] Closed-event system: Ensure that all gauging and sampling devices are gas-tight except when gauging or sampling is taking place. Subpart FF. [40 CFR 61.349(a)(1)(iii)]
- 22.1 [40 CFR 61.349(a)(2)(iii)] Comply with the requirements of 40 CFR 60.18. Subpart FF. [40 CFR 61.349(a)(2)(iii)]
- 22.2 [40 CFR 61.349(b)] Operate at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device. Subpart FF. [40 CFR 61.349(b)]
- 22.3 [40 CFR 61.349(c)] Demonstrate that each control device, except for a flare, achieves the appropriate conditions specified in 40 CFR 61.349(a)(2) using one of methods specified in 40 CFR 61.349(c)(1) and (c)(2). Subpart FF. [40 CFR 61.349(c)]
- 22.4 [40 CFR 61.349(d)] Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(d)]
- 22.5 [40 CFR 61.349(g)] Which Months: All Year Statistical Basis: None specified
- 22.6 [40 CFR 61.356] Make a first effort to repair the closed-event system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]
- 22.7 [40 CFR 61.357(f)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(2) through (7), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 22.8 [LAC 33:III.2103.E.1] Comply with the reporting requirements in 40 CFR 60.115b. Subpart FF. [40 CFR 61.357(f)]
- 22.9 [LAC 33:III.2103.E.] VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- Which Months: All Year Statistical Basis: None specified
- 22.10 [LAC 33:III.2103.E.] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

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- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC.33:III.2103.I.1 - 7, as applicable.
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with 40 CFR 61 Subpart FF (NESHAP FF) is determined as MACT.

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- Comply with 40 CFR 63 Subpart UU referencing Subpart FFFF in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- Comply with 40 CFR 63 Subpart UU referencing Subpart FFFF in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- Unsafe- and difficult-to-monitor equipment:** Equipment[operational] data recordkeeping by electronic or hard copy once initially and upon change or revision. Record the identity of equipment designated as unsafe-to-monitor according to the provisions of 40 CFR 63.1022(c)(1) and the planned schedule for monitoring this equipment. Also record the identity of equipment designated as difficult-to-monitor according to the provisions of 40 CFR 63.1022(c)(2), the planned schedule for monitoring this equipment, and an explanation why the equipment is unsafe or difficult-to-monitor. Keep this record at the plant and make available for review by an inspector. Subpart UU. [40 CFR 63.1022(c)(3)]
- Unsafe-to-monitor equipment:** Have a written plan that requires monitoring of the equipment as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in 40 CFR 63.1024 if a leak is detected. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) and (d)(2) for valves, 40 CFR 63.1026(b) and the monitoring and inspection requirements of 40 CFR 63.1026(e)(1)(v) through (viii) for pumps, 40 CFR 63.1027(a) and (b) for connectors, and 40 CFR 63.1028(c) for agitators. Subpart UU. [40 CFR 63.1022(c)(4)(i)]
- Difficult-to-monitor equipment:** Have a written plan that requires monitoring of the equipment at least once per calendar year and repair of the equipment according to the procedures in 40 CFR 63.1024 if a leak is detected. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) for valves, and 40 CFR 63.1028(c) for agitators. Subpart UU. [40 CFR 63.1022(c)(4)(ii)]
- Connectors (unsafe-to-repair):** Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Record the identity of connectors designated as unsafe-to-repair and an explanation of why the connectors are unsafe-to-repair. Subpart UU. [40 CFR 63.1022(d)(2)]
- Equipment in heavy liquid service. Retain information, data, and analyses used to determine that a piece of equipment is in heavy liquid service, or, when requested by DEQ, demonstrate that the piece of equipment or process is in heavy liquid service. Subpart UU. [40 CFR 63.1022(f)]
- Identify equipment subject to 40 CFR 63. Subpart UU as specified in 40 CFR 63.1022(a) through (f), as applicable. Subpart UU.
- Attach a weatherproof and readily visible identification to leaking equipment, when a leak is detected pursuant to the monitoring specified in 40 CFR 63.1023(a). Subpart UU. [40 CFR 63.1023(e)(1)]
- Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of a leak. Record the information specified in 40 CFR 63.1024(f) when a leak is detected. Keep the records pursuant to the referencing subpart, except keep information for connectors complying with the 8 year monitoring period allowed under 40 CFR 63.1027(b)(3)(iii) for 5 years beyond the date of its last use. Subpart UU. [40 CFR 63.1023(e)(2)]
- Repair each leak detected as soon as practical, but not later than 15 calendar days after it is detected, except as specified in 40 CFR 63.1024(d) and (e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Subpart UU. [40 CFR 63.1024(a)]

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- Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of delay of repair of a leak. Maintain a record of the facts that explain any delay of repairs and, where appropriate, why the repair was technically infeasible without a process unit shutdown. Subpart UU. [40 CFR 63.1024(d)]
- Valves in gas/vapor service and light liquid service (the greater of 2 valves or 2% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Subpart UU. [40 CFR 63.1025(b)(3)(i)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service (less than the greater of 2 valves or 2% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly to detect leaks, except as specified in 40 CFR 63.1025(b)(3)(iii) through (b)(3)(v). If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Subpart UU. [40 CFR 63.1025(b)(3)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service (less than 1% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 semiannually to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU. [40 CFR 63.1025(b)(3)(iii)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU. [40 CFR 63.1025(b)(3)(iv)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service (less than 0.25% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU. [40 CFR 63.1025(b)(3)(v)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service: Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep a record of the monitoring schedule for each process unit. Subpart UU. [40 CFR 63.1025(b)(3)(vi)]
- Valves in gas/vapor service and light liquid service: Calculate the percent leaking values for each monitoring period for each process unit or valve subgroup using the equation in 40 CFR 63.1025(c)(1)(ii). Subpart UU. [40 CFR 63.1025(c)(1)(ii)]
- Valves in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within three months after repair of a leak to determine whether the valve has resumed leaking. Subpart UU. [40 CFR 63.1025(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) and (d)(2). Subpart UU. [40 CFR 63.1025(c)(1)]
- Which Months: All Year Statistical Basis: None specified

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- 253 [40 CFR 63.1025(e)(2)] Valves in gas/vapor service and light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually to detect leaks. Monitor at least once per calendar year. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b). Subpart UU. [40 CFR 63.1025(e)(2)]
- 254 [40 CFR 63.1025(e)(3)] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service and light liquid service (fewer than 250 valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the monthly monitoring specified in 40 CFR 63.1025(b)(3)(i). Subpart UU. [40 CFR 63.1025(e)(3)]
- 255 [40 CFR 63.1026(b)(4)] Which Months: All Year Statistical Basis: None specified Pumps in light liquid service: Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Subpart UU. [40 CFR 63.1026(b)(4)]
- 256 [40 CFR 63.1026(b)(4)] Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, follow the procedure specified in 40 CFR 63.1026(b)(4)(i) or (b)(4)(ii). Subpart UU. [40 CFR 63.1026(b)(4)]
- 257 [40 CFR 63.1026(b)] Which Months: All Year Statistical Basis: None specified Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks. If a reading of 5,000 ppm (pumps handling polymerizing monomers), 2,000 ppm (pumps in food/medical service), or 1,000 ppm (all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1026(d). Initiate repairs for pumps with a 1,000 ppm leak definition only when an instrument reading of 2,000 ppm or greater is detected. Subpart UU. [40 CFR 63.1026(b)]
- 258 [40 CFR 63.1026(c)(2)] Which Months: All Year Statistical Basis: None specified Pumps in light liquid service: Implement a quality improvement program that complies with 40 CFR 63.1035 if, when calculated on a 6-month rolling average, at least the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart UU. [40 CFR 63.1026(c)(2)]
- 259 [40 CFR 63.1026(c)(4)] Pumps in light liquid service: Determine percent leaking pumps using the equation specified in 40 CFR 63.1026(c)(4). Subpart UU. [40 CFR 63.1026(c)(4)]
- 260 [40 CFR 63.1026(e)(1)(i)] Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria applicable to the presence and frequency of drips and to the sensor that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(i)]
- 261 [40 CFR 63.1026(e)(1)(i)] Pumps in light liquid service (dual mechanical seal system): Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Keep records at the plant of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Make records available for review by an inspector. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(i)]
- 262 [40 CFR 63.1026(e)(1)(ii)] Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times (except periods of startup, shutdown, or malfunction) greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(ii)]

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- 263 [40 CFR 63.1026(e)(1)(iii)] Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(iii)]
- 264 [40 CFR 63.1026(e)(1)(iv)] Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, the barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(iv)]
- 265 [40 CFR 63.1026(e)(1)(v)] Pumps in light liquid service (dual mechanical seal system): Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(c)(1)(v)]
- 266 [40 CFR 63.1026(e)(1)(v)] Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal, follow the procedure specified in 40 CFR 63.1026(e)(1)(v)(A) or (e)(1)(v)(B) prior to the next required inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(c)(1)(v)]
- 267 [40 CFR 63.1026(e)(1)(vii)] Which Months: All Year Statistical Basis: None specified Pumps in light liquid service (dual mechanical seal system - sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(vii)]
- 268 [40 CFR 63.1026(e)(4)] Which Months: All Year Statistical Basis: None specified Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor as often as practical and at least monthly. Comply with this requirement in lieu of the weekly visual inspection requirement of 40 CFR 63.1026(b)(4) and (c)(1)(v), and the daily requirements of 40 CFR 63.1026(e)(1)(vii). Subpart UU. [40 CFR 63.1026(e)(4)]
- 269 [40 CFR 63.1026(e)(6)] Which Months: All Year Statistical Basis: None specified Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 5,000 ppm (pumps handling polymerizing monomers), 2,000 ppm (pumps in food/medical service), or 1,000 ppm (all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements of 40 CFR 63.1026(b) and the monitoring and inspection requirements of 40 CFR 63.1026(e)(1)(v) through (viii). Subpart UU. [40 CFR 63.1026(e)(6)]
- 270 [40 CFR 63.1028(o)(1)] Which Months: All Year Statistical Basis: None specified Agitators in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as specified in 40 CFR 63.1021(b), 63.1036, 63.1037, or 63.1028(e). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1028(d). Subpart UU. [40 CFR 63.1028(c)(1)]
- 271 [40 CFR 63.1028(c)(3)] Which Months: All Year Statistical Basis: None specified Agitators in gas/vapor service and light liquid service: Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Subpart UU. [40 CFR 63.1028(c)(3)]

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Agitators in gas/vapor service and light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator seal. If there are indications of liquids dripping from the agitator seal, follow the procedures specified in 40 CFR 63.1028(c)(3)(ii)(A) or (c)(3)(ii)(B) prior to the next required inspection. Subpart UU-[40 CFR 63.1028(c)(3)]

Which Months: All Year Statistical Basis: None specified

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times (except during periods of startup, shutdown, or malfunction) greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that meets the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid into a process stream.

Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(e)(1)(i).

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service.

Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(e)(1)(ii).

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU-[40 CFR 63.1028(e)(1)(iii)].

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator seal. If there are indications of liquids dripping from the agitator seal, follow the procedures specified in 40 CFR 63.1028(e)(1)(iv)(A) or (e)(1)(iv)(B) prior to the next required inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU-[40 CFR 63.1028(e)(1)(iv)].

Which Months: All Year Statistical Basis: None specified

Agitators in gas/vapor service and light liquid service (dual mechanical seal system - sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator seal is located within the boundary of an unmanned plant site. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU-[40 CFR 63.1028(e)(1)(v)].

Which Months: All Year Statistical Basis: None specified

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both and applicable to the presence and frequency of drips. If indications of liquids dripping from the agitator seal exceed the criteria, or if, based on the criteria the sensor indicates a failure of the seal system, the barrier fluid system, or both, a leak is detected. If a leak is detected, repair pursuant to 40 CFR 63.1024, as applicable. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU-[40 CFR 63.1028(e)(1)(vi)(A)]

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Keep records of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU-[40 CFR 63.1028(e)(1)(vi)(B)].

Agitators in gas/vapor service and light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Comply with this requirement in lieu of the weekly visual inspection requirements of 40 CFR 63.1028(c)(3) and (e)(1)(iv) and the daily requirements of 40 CFR 63.1028(e)(1)(v). Subpart UU-[40 CFR 63.1028(e)(4)].

Which Months: All Year Statistical Basis: None specified

272 [40 CFR 63.1028(e)(1)(i)]

273 [40 CFR 63.1028(e)(1)(i)]

274 [40 CFR 63.1028(e)(1)(ii)]

275 [40 CFR 63.1028(e)(1)(iii)]

276 [40 CFR 63.1028(e)(1)(iv)]

277 [40 CFR 63.1028(e)(1)(v)]

278 [40 CFR 63.1028(e)(1)(vi)(A)]

279 [40 CFR 63.1028(e)(1)(vi)(B)]

280 [40 CFR 63.1028(e)(4)]

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- Agitators in gas/vapor service and light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor at least once per calendar year. If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(5)]
- Which Months: All Year Statistical Basis: None specified
- Agitators in gas/vapor service and light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(7)]
- Which Months: All Year Statistical Basis: None specified
- Pumps, valves, connectors, and agitators in heavy liquid service; pressure relief devices in liquid service; and instrumentation systems: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after evidence of a potential leak to the atmosphere is found by visual, audible, olfactory, or any other detection method, unless the potential leak is repaired as required in 40 CFR 63.1029(c). If an instrument reading of 10,000 ppm or greater (agitators), 5,000 ppm or greater (pumps handling polymerizing monomers), 2,000 ppm or greater (pumps in food and medical service, and all other pumps), or 500 ppm or greater (valves, connectors, instrumentation systems, and pressure relief devices) is measured, a leak is detected. If a leak is detected, repair pursuant to 40 CFR 63.1024, as applicable. Subpart UU. [40 CFR 63.1029(b)]
- Which Months: All Year Statistical Basis: None specified
- Pressure relief devices in gas/vapor service: Organic HAP < 500 ppm except during pressure releases as provided for in 40 CFR 63.1030(c), or as otherwise specified in 40 CFR 63.1036, 63.1037, or 63.1039(d) or (e). Subpart UU. [40 CFR 63.1030(b)]
- Which Months: All Year Statistical Basis: None specified
- Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.1024(d). Subpart UU. [40 CFR 63.1030(c)(1)]
- Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after a pressure release to confirm the condition indicated by an instrument reading of less than 500 ppm above background. Subpart UU. [40 CFR 63.1030(c)(2)]
- Which Months: All Year Statistical Basis: None specified
- Pressure relief devices in gas/vapor service: Monitoring data recording by electronic or hard copy within 5 days (calendar) after a pressure release. Record the dates and results of the monitoring required by 40 CFR 63.1030(c)(2) following a pressure release including the background level measured and the maximum instrument reading measured during the monitoring. Subpart UU. [40 CFR 63.1030(c)(3)]
- Pressure relief devices in gas/vapor service (rupture disk): Install a replacement rupture disk upstream of the pressure relief device as soon as practical after each pressure release but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.1024(d).
- Comply with this requirement in lieu of the requirements in 40 CFR 63.1030(b) and (c). Subpart UU. [40 CFR 63.1030(e)]
- Compressors (seal system): Operate with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure at all times (except during periods of startup, shutdown, or malfunction); or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that meets the requirements of either 40 CFR 63.1034 or 63.1021(b), or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart UU. [40 CFR 63.1031(b)]

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- 290 [40 CFR 63.1031(b)] Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, and 63.1031(e) and (f). Subpart UU. [40 CFR 63.1031(b)]
- 291 [40 CFR 63.1031(c)] Compressors (sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an alarm unless the compressor is located within the boundary of an unmanned plant site. Subpart UU. [40 CFR 63.1031(c)]
- 292 [40 CFR 63.1031(c)] Which Months: All Year Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart UU. [40 CFR 63.1031(c)]
- 293 [40 CFR 63.1031(c)] Compressors: Equip each barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart UU. [40 CFR 63.1031(c)]
- 294 [40 CFR 63.1031(f)(1)] Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024, as applicable. Subpart UU. [40 CFR 63.1031(d)(1)]
- 295 [40 CFR 63.1031(f)(2)] Compressors: Equipment/operational data recordkeeping by electronic or hard copy once initially, and upon change or revision. Keep records of the design criteria and an explanation of the design criteria, and any changes to these criteria and the reasons for the changes. Subpart UU. [40 CFR 63.1031(d)(2)]
- 296 [40 CFR 63.1031(e)] Compressors (routed to a process or fuel gas system or equipped with a closed-vent system): Equip with a system to capture and transport leakage from the compressor drive shaft seal to a process or a fuel gas system or to a closed-vent system that captures and transports leakage from the compressor to a control device meeting the requirements of either 40 CFR 63.1034 or 63.1021(b). Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(e)]
- 297 [40 CFR 63.1031(f)(1)] Compressors (operating with instrument reading of less than 500 ppm above background): Organic HAP < 500 ppm above background at all times, as demonstrated initially upon designation, annually, and at other times requested by DEQ. Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(f)(1)]
- 298 [40 CFR 63.1031(f)(2)] Which Months: All Year Compressors (operating with instrument reading of less than 500 ppm above background): Record the dates and results of each compliance test including the background level measured and the maximum instrument reading measured during each compliance test. Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(f)(2)]
- 299 [40 CFR 63.1032] Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, or 63.1032(d)... Operate the system as specified in 40 CFR 63.1032(c)(1) through (c)(5). Subpart UU. [40 CFR 63.1021(b), 63.1036, 63.1037, and 63.1033(c) and (d)]. Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart UU. [40 CFR 63.1033(b)]
- 300 [40 CFR 63.1033(b)] Comply with the provisions of 40 CFR 63 Subpart SS, except as provided in 40 CFR 63.1002(b), if routing emissions from equipment leaks to a fuel gas system or process. Subpart UU. [40 CFR 63.1034(b)(1)]
- 301 [40 CFR 63.1034(b)(1)] Keep the records specified in 40 CFR 63.1038(b) and (c). Subpart UU.
- 302 [40 CFR 63.1038]

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- 303 [40 CFR 63.1039(a)]  
Submit Initial Compliance Status Report. Due according to the procedures in the referencing subpart. Include the information listed in 40 CFR 63.1039(a)(1) through (a)(3), as applicable. Subpart UU. [40 CFR 63.1039(a)]
- 304 [40 CFR 63.1039(b)]  
Submit Periodic Reports: Due according to the procedures in the referencing subpart. Include the information listed in 40 CFR 63.1039(b)(1) through (b)(8), as applicable. Subpart UU. [40 CFR 63.1039(b)]
- 305 [40 CFR 63.2480(a)]  
Comply with the requirements in 40 CFR 63 Subpart UU except as specified in 63.2480(b) through (d). Subpart FFFF. [40 CFR 63.2480(a)]
- 306 [LAC 33.III.2122]  
Comply with 40 CFR 63 Subpart UU referencing Subpart FFFF in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.

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- 307 [40 CFR 61 Subpart J]  
Comply with 40 CFR 63 Subpart UU referencing Subpart FFFF in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 308 [40 CFR 61 Subpart V]  
Comply with 40 CFR 63 Subpart UU referencing Subpart FFFF in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 309 [40 CFR 63.1022(c)(3)]  
**Unsafe- and difficult-to-monitor equipment:** Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Record the identity of equipment designated as unsafe-to-monitor according to the provisions of 40 CFR 63.1022(c)(1) and the planned schedule for monitoring this equipment. Also record the identity of equipment designated as difficult-to-monitor according to the provisions of 40 CFR 63.1022(c)(2), the planned schedule for monitoring this equipment, and an explanation why the equipment is unsafe or difficult-to-monitor. Keep this record at the plant and make available for review by an inspector. Subpart UU. [40 CFR 63.1022(c)(3)]
- 310 [40 CFR 63.1022(c)(4)(iv)]  
**Unsafe-to-monitor equipment:** Have a written plan that requires monitoring of the equipment as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in 40 CFR 63.1024 if a leak is detected. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) and (d)(2) for valves, 40 CFR 63.1026(b) and the monitoring and inspection requirements of 40 CFR 63.1026(e)(1)(v) through (viii) for pumps, 40 CFR 63.1027(a) and (b) for connectors, and 40 CFR 63.1028(c) for agitators. Subpart UU. [40 CFR 63.1022(c)(4)(iv)]
- 311 [40 CFR 63.1022(c)(4)(xi)]  
**Difficult-to-monitor equipment:** Have a written plan that requires monitoring of the equipment at least once per calendar year and repair of the equipment according to the procedures in 40 CFR 63.1024 if a leak is detected. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) for valves, and 40 CFR 63.1028(c) for agitators. Subpart UU. [40 CFR 63.1022(c)(4)(xi)]
- 312 [40 CFR 63.1022(d)(2)]  
**Connectors (unsafe-to-repair):** Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Record the identity of connectors designated as unsafe-to-repair and an explanation of why the connectors are unsafe-to-repair. Subpart UU. [40 CFR 63.1022(d)(2)]
- 313 [40 CFR 63.1022(f)]  
**Equipment in heavy liquid service:** Retain information, data, and analyses used to determine that a piece of equipment is in heavy liquid service; or, when requested by DEQ, demonstrate that the piece of equipment or process is in heavy liquid service. Subpart UU. [40 CFR 63.1022(f)]
- 314 [40 CFR 63.1022]  
Identify equipment subject to 40 CFR 63 Subpart UU as specified in 40 CFR 63.1022(a) through (f), as applicable. Subpart UU.
- 315 [40 CFR 63.1023(e)(1)]  
Attach a weatherproof and readily visible identification to leaking equipment, when a leak is detected pursuant to the monitoring specified in 40 CFR 63.1023(a). Subpart UU. [40 CFR 63.1023(e)(1)]

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- Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of a leak. Record the information specified in 40 CFR 63.1024(f) when a leak is detected. Keep the records pursuant to the referencing subpart, except keep information for connectors complying with the 8 year monitoring period allowed under 40 CFR 63.1027(b)(3)(iii) for 5 years beyond the date of its last use. Subpart UU.
- [40 CFR 63.1023(e)(2)] Repair each leak detected as soon as practical, but not later than 15 calendar days after it is detected, except as specified in 40 CFR 63.1024(d) and (e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Subpart UU. [40 CFR 63.1024(a)]
- Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of delay of repair of a leak. Maintain a record of the facts that explain any delay of repairs and, where appropriate, why the repair was technically infeasible without a process unit shutdown. Subpart UU. [40 CFR 63.1023(e)(2)]
- Valves in gas/vapor service and light liquid service (the greater of 2 valves or 2% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Subpart UU. [40 CFR 63.1025(b)(3)(i)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service (less than the greater of 2 valves or 2% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly to detect leaks, except as specified in 40 CFR 63.1025(b)(3)(iii) through (b)(3)(v). If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Subpart UU. [40 CFR 63.1025(b)(3)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service (less than 1% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 semiannually to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(b)(3)(ii). Subpart UU. [40 CFR 63.1025(b)(3)(iii)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(b)(3)(ii). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(iv)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service (less than 0.25% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU. [40 CFR 63.1025(b)(3)(v)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service: Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep a record of the monitoring schedule for each process unit. Subpart UU. [40 CFR 63.1025(b)(3)(vi)]
- Valves in gas/vapor service and light liquid service: Calculate the percent leaking values for each process unit or valve subgroup using the equation in 40 CFR 63.1025(c)(1)(ii). Subpart UU. [40 CFR 63.1025(c)(1)(ii)]
- Valves in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within three months after repair of a leak to determine whether the valve has resumed leaking. Subpart UU. [40 CFR 63.1025(d)(2)]
- Which Months: All Year Statistical Basis: None specified

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327 [40 CFR 63.1025(e)(1)]

Valves in gas/vapor service and light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) and (d)(2). Subpart UU. [40 CFR 63.1025(e)(1)]

Which Months: All Year Statistical Basis: None specified

Valves in gas/vapor service and light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually to detect leaks. Monitor at least once per calendar year. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b). Subpart UU. [40 CFR 63.1025(e)(2)]

Which Months: All Year Statistical Basis: None specified

Valves in gas/vapor service and light liquid service (fewer than 250 valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the monthly monitoring specified in 40 CFR 63.1025(b)(3)(i). Subpart UU. [40 CFR 63.1025(e)(3)]

Which Months: All Year Statistical Basis: None specified

Pumps in light liquid service: Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Subpart UU. [40 CFR 63.1026(b)(4)]

Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, follow the procedure specified in 40 CFR 63.1026(b)(4)(i) or (b)(4)(ii). Subpart UU. [40 CFR 63.1026(b)(4)]

Which Months: All Year Statistical Basis: None specified

Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks. If a reading of 5,000 ppm (pumps handling polymerizing monomers), 2,000 ppm (pumps in food/medical service), or 1,000 ppm (all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1026(d). Initiate repairs for pumps with a 1,000 ppm leak definition only when an instrument reading of 2,000 ppm or greater is detected. Subpart UU. [40 CFR 63.1026(b)]

Which Months: All Year Statistical Basis: None specified

Pumps in light liquid service: Implement a quality improvement program that complies with 40 CFR 63.1035 if, when calculated on a 6-month rolling average, at least one greater of either i) percent of the pumps in a process unit or three pumps in a process unit leak. Subpart UU. [40 CFR 63.1026(c)(2)]

Pumps in light liquid service: Determine percent leaking pumps using the equation specified in 40 CFR 63.1026(c)(4). Subpart UU. [40 CFR 63.1026(c)(4)]

Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria applicable to the presence and frequency of drips and to the sensor that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(c)(1)(i)]

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- 336 [40 CFR 63.1026(e)(1)(i)] Pumps in light liquid service (dual mechanical seal system): Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Keep records at the plant of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Make records available for review by an inspector. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(i)]
- 337 [40 CFR 63.1026(e)(1)(iii)] Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times (except periods of startup, shutdown, or malfunction) greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(iii)]
- 338 [40 CFR 63.1026(e)(1)(iii)] Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(iii)]
- 339 [40 CFR 63.1026(e)(1)(iv)] Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, the barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(iv)]
- 340 [40 CFR 63.1026(e)(1)(v)] Pumps in light liquid service (dual mechanical seal system): Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(v)]
- 341 [40 CFR 63.1026(e)(1)(v)] Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal, follow the procedure specified in 40 CFR 63.1026(e)(1)(v)(A) or (e)(1)(v)(B) prior to the next required inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(v)]
- Which Months: All Year Statistical Basis: None specified
- 342 [40 CFR 63.1026(e)(1)(vii)] Pumps in light liquid service (dual mechanical seal system - sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(vii)]
- Which Months: All Year Statistical Basis: None specified
- 343 [40 CFR 63.1026(e)(4)] Pumps in light liquid service (unmanned plant site):-Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor as often as practical and at least monthly. Comply with this requirement in lieu of the weekly visual inspection requirement of 40 CFR 63.1026(b)(4) and (e)(1)(v), and the daily requirements of 40 CFR 63.1026(e)(1)(vii). Subpart UU. [40 CFR 63.1026(e)(4)]
- Which Months: All Year Statistical Basis: None specified
- 344 [40 CFR 63.1026(e)(6)] Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 5,000 ppm (pumps handling polymerizing monomers), 2,000 ppm (pumps in food/medical service), or 1,000 ppm (all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements of 40 CFR 63.1026(b) and the monitoring and inspection requirements of 40 CFR 63.1026(e)(1)(v) through (viii). Subpart UU. [40 CFR 63.1026(e)(6)]
- Which Months: All Year Statistical Basis: None specified

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Agitators in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as specified in 40 CFR 63.1021(b), 63.1036, 63.1037, or 63.1028(e). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1028(d). Subpart UU. [40 CFR 63.1028(c)(1)]

Which Months: All Year Statistical Basis: None specified

Agitators in gas/vapor service and light liquid service: Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Subpart UU. [40 CFR 63.1028(c)(3)]

Agitators in gas/vapor service and light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator seal. If there are indications of liquids dripping from the agitator seal, follow the procedures specified in 40 CFR 63.1028(c)(3)(ii)(A) or (c)(3)(ii)(B) prior to the next required inspection. Subpart UU. [40 CFR 63.1028(c)(3)]

Which Months: All Year Statistical Basis: None specified

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times (except during periods of startup, shutdown, or malfunction) greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that meets the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(i)]

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(e)(1)(ii)]

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(iii)]

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): None specified

Agitators in gas/vapor service and light liquid service (dual mechanical seal system - sensor): Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator seal. If there are indications of liquids dripping from the agitator seal, follow the procedures specified in 40 CFR 63.1028(e)(1)(iv)(A) or (e)(1)(iv)(B) prior to the next required inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(iv)]

Which Months: All Year Statistical Basis: None specified

Agitators in gas/vapor service and light liquid service (dual mechanical seal system - sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator seal is located within the boundary of an unmanned plant site. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(v)]

Which Months: All Year Statistical Basis: None specified

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both and applicable to the presence and frequency of drips. If indications of liquids dripping from the agitator seal exceed the criteria, or if, based on the criteria the sensor indicates a failure of the seal system, the barrier fluid system, or both, a leak is detected. If a leak is detected, repair pursuant to 40 CFR 63.1024, as applicable. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(e)(1)(vi)(A)]

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Keep records of the design criteria and an explanation of the design criteria, and any changes to these criteria and the reasons for the changes. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(vi)(B)]

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- Agitators in gas/vapor service and light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Comply with this requirement in lieu of the weekly visual inspection requirements of 40 CFR 63.1028(c)(3) and (e)(1)(iv) and the daily requirements of 40 CFR 63.1028(e)(1)(v). Subpart UU. [40 CFR 63.1028(e)(4)]
- Which Months: All Year Statistical Basis: None specified  
 Agitators in gas/vapor service and light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor at least once per calendar year. If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(5)]
- Which Months: All Year Statistical Basis: None specified  
 Agitators in gas/vapor service and light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(7)]
- Which Months: All Year Statistical Basis: None specified  
 Pumps, valves, connectors, and agitators in heavy liquid service; pressure relief devices in liquid service; and instrumentation systems: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after evidence of a potential leak to the atmosphere is found by visual, audible, olfactory, or any other detection method, unless the potential leak is repaired as required in 40 CFR 63.1029(c). If an instrument reading of 10,000 ppm or greater (agitators), 5,000 ppm or greater (pumps handling polymerizing monomers), 2,000 ppm or greater (pumps in food and medical service, and all other pumps), or 500 ppm or greater (valves, connectors, instrumentation systems, and pressure relief devices) is measured, a leak is detected. If a leak is detected, repair pursuant to 40 CFR 63.1024, as applicable. Subpart UU. [40 CFR 63.1029(b)]
- Which Months: All Year Statistical Basis: None specified  
 Pressure relief devices in gas/vapor service: Organic HAP < 500 ppm except during pressure releases as provided for in 40 CFR 63.1030(c), or as otherwise specified in 40 CFR 63.1036, 63.1037, or 63.1030(d) or (e). Subpart UU. [40 CFR 63.1030(b)]
- Which Months: All Year Statistical Basis: None specified  
 Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.1024(g). Subpart UU. [40 CFR 63.1030(c)(1)]
- Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after a pressure release to confirm the condition indicated by an instrument reading of less than 500 ppm above background. Subpart UU. [40 CFR 63.1030(c)(2)]
- Which Months: All Year Statistical Basis: None specified  
 Pressure relief devices in gas/vapor service: Monitoring data recordkeeping by electronic or hard copy within 5 days (calendar) after a pressure release. Record the dates and results of the monitoring required by 40 CFR 63.1030(c)(2) following a pressure release including the background level measured and the maximum instrument reading measured during the monitoring. Subpart UU. [40 CFR 63.1030(c)(3)]

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- 363 [40 CFR 63.1030(e)] Pressure relief devices in gas/vapor service (rupture disk): Install a replacement rupture disk upstream of the pressure relief device as soon as practical after each pressure release but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.1024(d). Comply with this requirement in lieu of the requirements in 40 CFR 63.1030(b) and (c). Subpart UU. [40 CFR 63.1030(e)]
- 364 [40 CFR 63.1031(b)] Compressors (seal system): Operate with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure at all times (except during periods of startup, shutdown, or malfunction); or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that meets the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart UU. [40 CFR 63.1031(b)]
- 365 [40 CFR 63.1031(b)] Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, and 63.1037, and 63.1031(e) and (f). Subpart UU. [40 CFR 63.1031(b)]
- 366 [40 CFR 63.1031(c)] Compressors (sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an alarm unless the compressor is located within the boundary of an unmanned plant site. Subpart UU. [40 CFR 63.1031(c)]
- Which Months: All Year Statistical Basis: None specified
- 367 [40 CFR 63.1031(c)] Compressors: Ensure that the barrier fluid is not in liquid service. Subpart UU. [40 CFR 63.1031(c)]
- 368 [40 CFR 63.1031(c)] Compressors: Equip each barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart UU. [40 CFR 63.1031(c)]
- 369 [40 CFR 63.1031(d)(1)] Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024, as applicable. Subpart UU. [40 CFR 63.1031(d)(1)]
- 370 [40 CFR 63.1031(d)(2)] Compressors: Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Keep records of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Subpart UU. [40 CFR 63.1031(d)(2)]
- 371 [40 CFR 63.1031(e)] Compressors (routed to a process or fuel gas system or equipped with a closed-vent system): Equip with a system to capture and transport leakage from the compressor drive shaft seal to a process or a fuel gas system or to a closed-vent system that captures and transports leakage from the compressor to a control device meeting the requirements of either 40 CFR 63.1034 or 63.1021(b). Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(e)]
- 372 [40 CFR 63.1031(f)(1)] Compressors (operating with instrument reading of less than 500 ppm above background): Organic HAP < 500 ppm above background at all times, as demonstrated initially upon designation, annually, and at other times requested by DEQ. Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(h) through (d). Subpart UU. [40 CFR 63.1031(f)(1)]
- 373 [40 CFR 63.1031(f)(2)] Compressors (operating with instrument reading of less than 500 ppm above background): Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of a compliance test. Record the dates and results of each compliance test including the background level measured and the maximum instrument reading measured during each compliance test. Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(f)(2)]
- 374 [40 CFR 63.1032] Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, or 63.1032(d). Operate the system as specified in 40 CFR 63.1032(c)(1) through (c)(5). Subpart UU.

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- 375 [40 CFR 63.1033(b)] Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, and 63.1033(c) and (d). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line; or during maintenance. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart UU. [40 CFR 63.1033(b)]
- 376 [40 CFR 63.1034(b)(1)] Comply with the provisions of 40 CFR 63 Subpart SS, except as provided in 40 CFR 63.1002(b), if routing emissions from equipment leaks to a fuel gas system or process. Subpart UU. [40 CFR 63.1034(b)(1)]
- 377 [40 CFR 63.1038] Keep the records specified in 40 CFR 63.1038(b) and (c). Subpart UU:
- 378 [40 CFR 63.1039(a)] Submit Initial Compliance Status Report: Due according to the procedures in the referencing subpart. Include the information listed in 40 CFR 63.1039(a)(1) through (a)(3), as applicable. Subpart UU. [40 CFR 63.1039(a)]
- 379 [40 CFR 63.1039(b)] Submit Periodic Reports: Due according to the procedures in the referencing subpart. Include the information listed in 40 CFR 63.1039(b)(1) through (b)(8), as applicable. Subpart UU. [40 CFR 63.1039(b)]
- 380 [40 CFR 63.2480(a)] Comply with the requirements in 40 CFR 63 Subpart UU except as specified in 63.2480(b) through (d). Subpart FFFFF. [40 CFR 63.2480(a)]
- 381 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 382 [LAC 33:III.2122] Comply with 40 CFR 63 Subpart UU referencing Subpart FFFFF in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.

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- 383 [40 CFR 60 Subpart VV] Comply with 40 CFR 63 Subpart UU referencing Subpart FFFFF in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 384 [40 CFR 61 Subpart J] Comply with 40 CFR 63 Subpart UU referencing Subpart FFFFF in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 385 [40 CFR 61 Subpart V] Comply with 40 CFR 63 Subpart UU referencing Subpart FFFFF in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 386 [40 CFR 63.1022(c)(3)] Unsafe- and difficult-to-monitor equipment: Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Record the identity of equipment designated as unsafe-to-monitor according to the provisions of 40 CFR 63.1022(c)(1) and the planned schedule for monitoring this equipment. Also record the identity of equipment designated as difficult-to-monitor according to the provisions of 40 CFR 63.1022(c)(2), the planned schedule for monitoring this equipment, and an explanation why the equipment is unsafe or difficult-to-monitor. Keep this record at the plant and make available for review by an inspector. Subpart UU. [40 CFR 63.1022(c)(3)]
- 387 [40 CFR 63.1022(c)(4)(i)] Unsafe-to-monitor equipment: Have a written plan that requires monitoring of the equipment as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in 40 CFR 63.1024 if a leak is detected. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) and (d)(2) for valves, 40 CFR 63.1026(b) and the monitoring and inspection requirements of 40 CFR 63.1026(e)(1)(v) through (viii) for pumps, 40 CFR 63.1027(a) and (b) for connectors, and 40 CFR 63.1028(c) for agitators. Subpart UU. [40 CFR 63.1022(c)(4)(i)]

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- Difficult-to-monitor equipment: Have a written plan that requires monitoring of the equipment at least once per calendar year and repair of the equipment according to the procedures in 40 CFR 63.1024 if a leak is detected. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) for valves, and 40 CFR 63.1028(c) for agitators. Subpart UU. [40 CFR 63.1022(c)(4)(ii)]
- Connectors (unsafe-to-repair): Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Record the identity of connectors designated as unsafe-to-repair and an explanation of why the connectors are unsafe-to-repair. Subpart UU. [40 CFR 63.1022(d)(2)]
- Equipment in heavy liquid service: Retain information, data, and analyses used to determine that a piece of equipment is in heavy liquid service, or, when requested by DEQ, demonstrate that the piece of equipment or process is in heavy liquid service. Subpart UU. [40 CFR 63.1022(f)]
- Identify equipment subject to 40 CFR 63.1022(a) through (f), as applicable. Subpart UU.
- Attach a weatherproof and readily visible identification to leaking equipment, when a leak is detected pursuant to the monitoring specified in 40 CFR 63.1023(a). Subpart UU. [40 CFR 63.1023(e)(1)]
- Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of a leak. Record the information specified in 40 CFR 63.1024(f) when a leak is detected. Keep the records pursuant to the referencing subpart, except keep information for connectors complying with the 8 year monitoring period allowed under 40 CFR 63.1027(b)(3)(iii) for 5 years beyond the date of its last use. Subpart UU. [40 CFR 63.1023(e)(2)]
- Repair each leak detected as soon as practical, but not later than 15 calendar days after it is detected, except as specified in 40 CFR 63.1024(d) and (e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Subpart UU. [40 CFR 63.1024(a)]
- Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of delay of repair of a leak. Maintain a record of the facts that explain any delay of repairs and, where appropriate, why the repair was technically infeasible without a process unit shutdown. Subpart UU. [40 CFR 63.1024(d)]
- Valves in gas/vapor service and light liquid service (the greater of 2 valves or 2% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(q). Subpart UU. [40 CFR 63.1025(h)(3)(i)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service (less than the greater of 2 valves or 2% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly to detect leaks, except as specified in 40 CFR 63.1025(b)(3)(ii) through (b)(3)(v). If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Subpart UU. [40 CFR 63.1025(b)(3)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service (less than 1% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 semiannually to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU. [40 CFR 63.1025(b)(3)(iii)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU. [40 CFR 63.1025(b)(3)(iv)]
- Which Months: All Year Statistical Basis: None specified

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Valves in gas/vapor service and light liquid service (less than 0.25% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU: [40 CFR 63.1025(b)(3)(v)]

Which Months: All Year Statistical Basis: None specified

Valves in gas/vapor service and light liquid service: Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep a record of the monitoring schedule for each process unit. Subpart UU. [40 CFR 63.1025(b)(3)(vi)]

Valves in gas/vapor service and light liquid service: Calculate the percent leaking valves for each monitoring period for each process unit or valve subgroup using the equation in 40 CFR 63.1025(c)(1)(ii). Subpart UU. [40 CFR 63.1025(c)(1)(ii)]

Valves in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within three months after repair of a leak to determine whether the valve has resumed leaking. Subpart UU. [40 CFR 63.1025(d)(2)]

Which Months: All Year Statistical Basis: None specified

Valves in gas/vapor service and light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) and (d)(2). Subpart UU. [40 CFR 63.1025(e)(1)]

Which Months: All Year Statistical Basis: None specified

Valves in gas/vapor service and light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually to detect leaks. Monitor at least once per calendar year. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b). Subpart UU. [40 CFR 63.1025(e)(2)]

Which Months: All Year Statistical Basis: None specified

Valves in gas/vapor service and light liquid service (fewer than 250 valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the monthly monitoring specified in 40 CFR 63.1025(b)(3)(i). Subpart UU. [40 CFR 63.1025(e)(3)]

Which Months: All Year Statistical Basis: None specified

Pumps in light liquid service: Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Subpart UU. [40 CFR 63.1026(b)(4)]

Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, follow the procedure specified in 40 CFR 63.1026(b)(4)(i) or (b)(4)(ii). Subpart UU. [40 CFR 63.1026(b)(4)]

Which Months: All Year Statistical Basis: None specified

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- 409 [40 CFR 63.1026(b)] Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks. If a reading of 5,000 ppm (pumps handling polymerizing monomers), 2,000 ppm (pumps in food/medical service), or 1,000 ppm (all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1026(d). Initiate repairs for pumps with a 1,000 ppm leak definition only when an instrument reading of 2,000 ppm or greater is detected. Subpart UU. [40 CFR 63.1026(b)]
- Which Months: All Year Statistical Basis: None specified
- 410 [40 CFR 63.1026(c)(2)] Pumps in light liquid service: Implement a quality improvement program that complies with 40 CFR 63.1035 if, when calculated on a 6-month rolling average, at least the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart UU. [40 CFR 63.1026(c)(2)]
- 411 [40 CFR 63.1026(c)(4)] Pumps in light liquid service: Determine percent leaking pumps using the equation specified in 40 CFR 63.1026(c)(4). Subpart UU. [40 CFR 63.1026(c)(4)]
- 412 [40 CFR 63.1026(e)(1)(i)] Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria applicable to the presence and frequency of drips and to the sensor that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(i)].
- 413 [40 CFR 63.1026(e)(1)(ii)] Pumps in light liquid service (dual mechanical seal system): Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Keep records at the plant of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Make records available for review by an inspector. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(ii)]
- 414 [40 CFR 63.1026(e)(1)(iii)] Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times (except periods of startup, shutdown, or malfunction) greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(iii)]
- 415 [40 CFR 63.1026(e)(1)(iv)] Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(iv)]
- 416 [40 CFR 63.1026(e)(1)(v)] Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, the barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(v)]
- 417 [40 CFR 63.1026(e)(1)(v)] Pumps in light liquid service (dual mechanical seal system): Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(v)]
- 418 [40 CFR 63.1026(e)(1)(v)] Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal, follow the procedure specified in 40 CFR 63.1026(e)(1)(v)(A) or (e)(1)(v)(B) prior to the next required inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(v)]
- Which Months: All Year Statistical Basis: None specified

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419 [40 CFR 63.1026(e)(1)(vii)]

Pumps in light liquid service (dual mechanical seal system - sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(vii)]

420 [40 CFR 63.1026(e)(4)]

Which Months: All Year Statistical Basis: None specified  
 Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor as often as practical and at least monthly. Comply with this requirement in lieu of the weekly visual inspection requirement of 40 CFR 63.1026(b)(4) and (e)(1)(v), and the daily requirements of 40 CFR 63.1026(e)(1)(vii). Subpart UU. [40 CFR 63.1026(e)(4)]

421 [40 CFR 63.1026(e)(6)]

Which Months: All Year Statistical Basis: None specified  
 Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 5,000 ppm (pumps handling polymerizing monomers), 2,000 ppm (pumps in food/medical service), or 1,000 ppm (all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements of 40 CFR 63.1026(b) and the monitoring and inspection requirements of 40 CFR 63.1026(e)(1)(v) through (viii). Subpart UU. [40 CFR 63.1026(e)(6)]

422 [40 CFR 63.1028(c)(1)]

Which Months: All Year Statistical Basis: None specified  
 Agitators in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as specified in 40 CFR 63.1021(b), 63.1036, 63.1037, or 63.1028(e). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1028(d). Subpart UU. [40 CFR 63.1028(c)(1)]

423 [40 CFR 63.1028(c)(3)]

Which Months: All Year Statistical Basis: None specified  
 Agitators in gas/vapor service and light liquid service: Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Subpart UU. [40 CFR 63.1028(c)(3)]

424 [40 CFR 63.1028(c)(3)]

Agitators in gas/vapor service and light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator seal. If there are indications of liquids dripping from the agitator seal, follow the procedures specified in 40 CFR 63.1028(c)(3)(ii)(A) or (c)(3)(ii)(B) prior to the next required inspection. Subpart UU. [40 CFR 63.1028(c)(3)]

425 [40 CFR 63.1028(e)(1)(i)]

Which Months: All Year Statistical Basis: None specified  
 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times (except during periods of startup, shutdown, or malfunction) greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel/gas system or connected by a closed-vent system to a control device that meets the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(i)]

426 [40 CFR 63.1028(e)(1)(ii)]

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(e)(1)(ii).

427 [40 CFR 63.1028(e)(1)(iii)]

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(iii)]

**SPECIFIC REQUIREMENTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
 Activity Number: PER20070022  
 Permit Number: 2156-V1  
 Air - Title V Regular Permit Renewal

**FUG0060 U-45D: NEOACIDS LOADING RACK FUGITIVE EMISSIONS (E-1000)**

- 428 [40 CFR 63.1028(e)(1)(iv)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator seal. If there are indications of liquids dripping from the agitator seal, follow the procedures specified in 40 CFR 63.1028(e)(1)(iv)(A) or (e)(1)(iv)(B) prior to the next required inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(iv)]
- Which Months: All Year Statistical Basis: None specified
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system - sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator seal is located within the boundary of an unmanned plant site. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(v)]
- Which Months: All Year Statistical Basis: None specified
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both and applicable to the presence and frequency of drips. If indications of liquids dripping from the agitator seal exceed the criteria, or if, based on the criteria the sensor indicates a failure of the seal system, the barrier fluid system, or both, a leak is detected. If a leak is detected, repair pursuant to 40 CFR 63.1024, as applicable. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(vi)(A)]
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Keep records of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(vi)(B)]
- Agitators in gas/vapor service and light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Comply with this requirement in lieu of the weekly visual inspection requirements of 40 CFR 63.1028(c)(3) and (c)(1)(iv) and the daily requirements of 40 CFR 63.1028(e)(1)(v). Subpart UU. [40 CFR 63.1028(e)(4)]
- Which Months: All Year Statistical Basis: None specified
- Agitators in gas/vapor service and light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor at least once per calendar year. If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(c)(5)]
- Which Months: All Year Statistical Basis: None specified
- Agitators in gas/vapor service and light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(7)]
- Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

**AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant**  
**Activity Number: PER20070022**  
**Permit Number: 2156-V1**  
**Air - Title V Regular Permit Renewal**

**FUG0060 U-45D: NEOACIDS LOADING RACK FUGITIVE EMISSIONS (E-1000)**

435 [40 CFR 63.1039(b)]

Pumps, valves, connectors, and agitators in heavy liquid service; pressure relief devices in liquid service; and instrumentation systems: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after evidence of a potential leak to the atmosphere is found by visual, audible, olfactory, or any other detection method; unless the potential leak is repaired as required in 40 CFR 63.1029(c). If an instrument reading of 10,000 ppm or greater (agitators), 5,000 ppm or greater (pumps handling polymerizing monomers), 2,000 ppm or greater (pumps in food and medical service, and all other pumps), or 500 ppm or greater (valves, connectors, instrumentation systems, and pressure relief devices) is measured, a leak is detected. If a leak is detected, repair pursuant to 40 CFR 63.1024, as applicable. Subpart UU. [40 CFR 63.1029(b)]

436 [40 CFR 63.1030(b)]

Pressure relief devices in gas/vapor service: Organic HAP < 500 ppm except during pressure releases as provided for in 40 CFR 63.1030(c), or as otherwise specified in 40 CFR 63.1036, 63.1037, or 63.1030(d) or (e). Subpart UU. [40 CFR 63.1030(b)]

437 [40 CFR 63.1030(c)(1)]

Which Months: All Year Statistical Basis: None specified

438 [40 CFR 63.1030(c)(2)]

Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.1024(d). Subpart UU. [40 CFR 63.1030(c)(1)]

Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after a pressure release to confirm the condition indicated by an instrument reading of less than 500 ppm above background. Subpart UU. [40 CFR 63.1030(c)(2)]

439 [40 CFR 63.1030(c)(3)]

Which Months: All Year Statistical Basis: None specified

Pressure relief devices in gas/vapor service: Monitoring data recordkeeping by electronic or hard copy within 5 days (calendar) after a pressure release. Record the dates and results of the monitoring required by 40 CFR 63.1030(c)(2) following a pressure release including the background level measured and the maximum instrument reading measured during the monitoring. Subpart UU. [40 CFR 63.1030(c)(3)]

440 [40 CFR 63.1030(e)]

Pressure relief devices in gas/vapor service (rupture disk): Install a replacement rupture disk upstream of the pressure relief device as soon as practical after each pressure release but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.1024(d). Comply with this requirement in lieu of the requirements in 40 CFR 63.1030(b) and (c). Subpart UU. [40 CFR 63.1030(e)]

441 [40 CFR 63.1031(f)]

Compressors (seal system): Operate with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure at all times (except during periods of startup, shutdown, or malfunction); or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that meets the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart UU. [40 CFR 63.1031(f)]

442 [40 CFR 63.1031(f)]

Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, and 63.1031(e) and (f). Subpart UU. [40 CFR 63.1031(f)]

Compressors (sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an alarm unless the compressor is located within the boundary of an unmanned plant site. Subpart UU. [40 CFR 63.1031(c)]

443 [40 CFR 63.1031(c)]

Which Months: All Year Statistical Basis: None specified

Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart UU. [40 CFR 63.1031(c)]

444 [40 CFR 63.1031(c)]

Compressors: Equip each barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart UU. [40 CFR 63.1031(c)]

SPECIFIC REQUIREMENTS

**AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant**  
**Activity Number: PER20070022**

**Permit Number: 2156-V1**  
**Air - Title V Regular Permit Renewal**

**FUG0060 U-45D: NEOACIDS LOADING RACK FUGITIVE EMISSIONS (E-1000)**

- Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024, as applicable. Subpart UU. [40 CFR 63.1031(d)(1)]
- Compressors: Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Keep records of the design criteria and an explanation of the design criteria, and any changes to these criteria and the reasons for the changes. Subpart UU. [40 CFR 63.1031(d)(2)]
- Compressors (routed to a process or fuel gas system or equipped with a closed-vent system): Equip with a system to capture and transport leakage from the compressor drive shaft seal to a process or a fuel gas system or to a closed-vent system that captures and transports leakage from the compressor to a control device meeting the requirements of either 40 CFR 63.1034 or 63.1021(b). Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(e)]
- Compressors (operating with instrument reading of less than 500 ppm above background): Organic HAP < 500 ppm above background at all times, as demonstrated initially upon designation, annually, and at other times requested by DEQ. Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(f)(1)]
- Which Months: All Year Statistical Basis: None specified
- Compressors (operating with instrument reading of less than 500 ppm above background): Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of a compliance test. Record the dates and results of each compliance test including the background level measured and the maximum instrument reading measured during each compliance test. Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(f)(2)]
- Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, or 63.1032(d). Operate the system as specified in 40 CFR 63.1032(c)(1) through (c)(5). Subpart UU.
- Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, and 63.1033(c) and (d). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart UU. [40 CFR 63.1033(b)]
- Comply with the provisions of 40 CFR 63 Subpart SS, except as provided in 40 CFR 63.1002(b), if routing emissions from equipment leaks to a fuel gas system or process. Subpart UU. [40 CFR 63.1034(b)(1)]
- Keep the records specified in 40 CFR 63.1038(b) and (c). Subpart UU.
- Submit Initial Compliance Status Report: Due according to the procedures in the referencing subpart. Include the information listed in 40 CFR 63.1039(a)(1) through (a)(3), as applicable. Subpart UU. [40 CFR 63.1039(a)]
- Submit Periodic Reports: Due according to the procedures in the referencing subpart. Include the information listed in 40 CFR 63.1039(b)(1) through (b)(8), as applicable. Subpart UU. [40 CFR 63.1039(b)]
- Comply with the requirements in 40 CFR 63 Subpart UU except as specified in 63.2480(b) through (d). Subpart FFFF. [40 CFR 63.2480(a)]
- Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- Comply with 40 CFR 63 Subpart UU referencing Subpart FFFF in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.

**SPECIFIC REQUIREMENTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
 Activity Number: PER20070022  
 Permit Number: 2156-V1  
 Air - Title V Regular Permit Renewal

**RLP0829 V-294: AT01, BR-01, CR-01, DT-02 VENTS**

Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]

Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]

This source will comply with all applicable provisions of the Compliance Assurance Monitoring requirements.

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1300\text{ F}$  ( $704\text{ degrees C}$ ) for 0.3 second or greater in a direct-flame afterburner or an equally effective device which achieves a removal efficiency of 95 percent or greater, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 50 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None specified

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with LAC 33:III.2115 is determined as MACT.

**RLP0830 V-389: AIM STEAM STRIPPER(ET-01)**

465 [40 CFR 61.348(a)(1)(i)]

Waste stream: Benzene  $< 10\text{ ppmw}$  (flow-weighted). Subpart FF. [40 CFR 61.348(a)(1)(i)]

Which Months: All Year Statistical Basis: Annual average

466 [40 CFR 61.348(a)(1)(ii)]

Waste stream: Benzene  $\geq 99\%$  removal efficiency on a mass basis. Subpart FF. [40 CFR 61.348(a)(1)(ii)]

Which Months: All Year Statistical Basis: None specified

467 [40 CFR 61.348(a)(1)(iii)]

Waste stream: Benzene  $\geq 99\%$  destruction efficiency by incinerating the waste in a combustion unit. Subpart FF. [40 CFR 61.348(a)(1)(iii)]

Which Months: All Year Statistical Basis: None specified

Design and operate each waste management unit that comprises the waste treatment system in accordance with the appropriate standards specified in 40 CFR 61.343 through 61.347, except as specified in 40 CFR 61.348(b)(2). Subpart FF. [40 CFR 61.348(b)(1)]

Demonstrate that each treatment process or wastewater treatment system unit, except as specified in 40 CFR 61.348(d), achieves the appropriate conditions specified in 40 CFR 61.248(a) or (b) in accordance with the requirements in 40 CFR 61.348(c)(1) and (c)(2). Subpart FF. [40 CFR 61.348(c)]

Seals and/or openings: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that openings are closed and gasketed properly. Subpart FF. [40 CFR 61.348(e)(1)]

Which Months: All Year Statistical Basis: None specified

Make first efforts at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gasket or other problem is identified, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.348(e)(2)]

Seal any openings and keep closed at all times when waste is being treated, except during inspection and maintenance, except as specified in 40 CFR 61.348(e)(3). Subpart FF. [40 CFR 61.348(e)]

Closed-vent system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)]

**SPECIFIC REQUIREMENTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
 Activity Number: PER20070022  
 Permit Number: 2156-V1  
 Air - Title V Regular Permit Renewal

**RLP0830 V-389: AIM STEAM STRIPPER(ET-01)**

- 474 [40 CFR 61.349(a)(1)(ii)] Closed-vent system (bypass lines): Flow monitored by flow indicator once every 15 minutes, except as provided in 40 CFR 61.349(a)(1)(ii)(B). Install the flow indicator at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere. Subpart FF. [40 CFR 61.349(a)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 475 [40 CFR 61.349(a)(1)(ii)] Closed-vent system (bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Subpart FF. [40 CFR 61.349(a)(1)(ii)]
- 476 [40 CFR 61.349(a)(1)(iii)] Closed-vent system: Ensure that all gauging and sampling devices are gas-tight except when gauging or sampling is taking place. Subpart FF. [40 CFR 61.349(a)(1)(iii)]
- 477 [40 CFR 61.349(a)(2)(iii)] Comply with the requirements of 40 CFR 60.18. Subpart FF. [40 CFR 61.349(a)(2)(iii)]
- 478 [40 CFR 61.349(b)] Operate at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device. Subpart FF. [40 CFR 61.349(b)]
- 479 [40 CFR 61.349(c)] Demonstrate that each control device, except for a flare, achieves the appropriate conditions specified in 40 CFR 61.349(a)(2) using one of methods specified in 40 CFR 61.349(c)(1) and (c)(2). Subpart FF. [40 CFR 61.349(c)]
- 480 [40 CFR 61.349(f)] Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(f)]
- Which Months: All Year Statistical Basis: None specified
- 481 [40 CFR 61.349(g)] Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]
- 482 [40 CFR 61.354(a)(2)] Equipment/operational data monitored by the regulation's specified method(s) continuously. Monitor process parameter(s) for the treatment process or wastewater stream system unit that indicates proper system operation. Subpart FF. [40 CFR 61.354(a)(2)]
- 483 [40 CFR 61.354(a)(2)] Which Months: All Year Statistical Basis: None specified
- 484 [40 CFR 61.354(a)(2)] Equipment/operational data recordkeeping by recorder continuously. Record process parameter(s) for the treatment process or wastewater stream system unit that indicates proper system operation. Subpart FF. [40 CFR 61.354(a)(2)]
- 485 [40 CFR 61.356] Monitoring data monitored by technically sound method daily. Inspect the data recorded by the monitoring equipment to ensure that the unit is operating properly. Subpart FF. [40 CFR 61.354(a)(2)]
- 486 [40 CFR 61.357(f)] Which Months: All Year Statistical Basis: None specified
- 487 [LAC 33 III:5109.A] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- Comply with the reporting requirements in 40 CFR 60.115b. Subpart FF. [40 CFR 61.357(f)]
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with 40 CFR 61 Subpart FF (NESHAP FF) is determined as MACT.

**RLP0831 V-422: ALUMINOUS WATER DRUM(ED-02)**

**SPECIFIC REQUIREMENTS**

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant  
 Activity Number: PER20070022  
 Permit Number: 2156-V1  
 Air - Title V Regular Permit Renewal

**RLP0831 V-422: ALUMINOUS WATER DRUM(ED-02)**

- 488 [40 CFR 61.348(a)(1)(i)] Waste stream: Benzene < 10 ppmw (flow-weighted). Subpart FF. [40 CFR 61.348(a)(1)(i)]  
 Which Months: All Year Statistical Basis: Annual average
- 489 [40 CFR 61.348(a)(1)(ii)] Waste stream: Benzene >= 99 % removal efficiency on a mass basis: Subpart FF. [40 CFR 61.348(a)(1)(ii)]  
 Which Months: All Year Statistical Basis: None specified
- 490 [40 CFR 61.348(a)(1)(iii)] Waste stream: Benzene >= 99 % destruction efficiency by incinerating the waste in a combustion unit. Subpart FF. [40 CFR 61.348(a)(1)(iii)]  
 Which Months: All Year Statistical Basis: None specified
- 491 [40 CFR 61.348(b)(1)] Design and operate each waste management unit that comprises the waste treatment system in accordance with the appropriate standards specified in 40 CFR 61.343 through 61.347, except as specified in 40 CFR 61.348(b)(2). Subpart FF. [40 CFR 61.348(b)(1)]
- 492 [40 CFR 61.348(c)] Demonstrate that each treatment process or wastewater treatment system unit, except as specified in 40 CFR 61.348(d), achieves the appropriate conditions specified in 40 CFR 61.248(a) or (b) in accordance with the requirements in 40 CFR 61.348(c)(1) and (c)(2). Subpart FF. [40 CFR 61.348(c)]
- 493 [40 CFR 61.348(e)(1)] Seals and/or openings: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that openings are closed and gasketed properly. Subpart FF. [40 CFR 61.348(e)(1)]
- 494 [40 CFR 61.348(e)(2)] Which Months: All Year Statistical Basis: None specified  
 Make first efforts at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gasket or other problem is identified, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.348(e)(2)]
- 495 [40 CFR 61.348(e)] Seal any openings and keep closed at all times when waste is being treated, except during inspection and maintenance, except as specified in 40 CFR 61.348(e)(3). Subpart FF. [40 CFR 61.348(e)]
- 496 [40 CFR 61.349(a)(1)(i)] Closed-event system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)]
- 497 [40 CFR 61.349(a)(1)(ii)] Closed-event system (bypass lines): Flow monitored by flow indicator once every 15 minutes, except as provided in 40 CFR 61.349(a)(1)(ii)(B). Install the flow indicator at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere. Subpart FF. [40 CFR 61.349(a)(1)(ii)]
- 498 [40 CFR 61.349(a)(1)(ii)] Which Months: All Year Statistical Basis: None specified  
 Closed-event system (bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Subpart FF. [40 CFR 61.349(a)(1)(ii)]
- 499 [40 CFR 61.349(a)(1)(iii)] Closed-event system: Ensure that all gauging and sampling devices are gas-tight except when gauging or sampling is taking place. Subpart FF. [40 CFR 61.349(a)(1)(iii)]
- 500 [40 CFR 61.349(a)(2)(iii)] Comply with the requirements of 40 CFR 60.18. Subpart FF. [40 CFR 61.349(a)(2)(iii)]
- 501 [40 CFR 61.349(b)] Operate at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device. Subpart FF. [40 CFR 61.349(b)]
- 502 [40 CFR 61.349(c)] Demonstrate that each control device, except for a flare, achieves the appropriate conditions specified in 40 CFR 61.349(a)(2) using one of methods specified in 40 CFR 61.349(c)(1) and (c)(2). Subpart FF. [40 CFR 61.349(c)]
- 503 [40 CFR 61.349(f)] Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(f)]
- Which Months: All Year Statistical Basis: None specified

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504 [40 CFR 61.349(e)] Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]

505 [40 CFR 61.354(a)(2)] Equipment/operational data monitored by the regulation's specified method(s) continuously. Monitor process parameter(s) for the treatment process or wastewater stream system unit that indicates proper system operation. Subpart FF. [40 CFR 61.354(a)(2)]

506 [40 CFR 61.354(a)(2)] Which Months: All Year Statistical Basis: None Specified

Equipment/operational data recordkeeping by recorder continuously. Record process parameter(s) for the treatment process or wastewater stream system unit that indicates proper system operation. Subpart FF. [40 CFR 61.354(a)(2)]

507 [40 CFR 61.354(a)(2)] Monitoring data monitored by technically sound method daily. Inspect the data recorded by the monitoring equipment to ensure that the unit is operating properly. Subpart FF. [40 CFR 61.354(a)(2)]

508 [40 CFR 61.356] Which Months: All Year Statistical Basis: None Specified

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

509 [40 CFR 61.357(f)] Comply with the reporting requirements in 40 CFR 60.115b. Subpart FF. [40 CFR 61.357(f)]

510 [LAC 33:III.5109 A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with 40 CFR 61 Subpart FF (NESHAP FF) is determined as MACT.

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511 [40 CFR 60.] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.

Containers: Exempt from monitoring. Containers that have capacities <0.42 cubic meters (111 gallons) and meet DOT specification and testing requirements under 49 CFR 178 and that hold benzene-containing wastes with a flow weighted annual average benzene concentration >= 10 ppmw are exempt from method 21 monitoring requirements. 40 CFR 61 Subpart FF. [40 CFR 61.342(c)(3)(ii)]

For waste streams that are exempted from the control requirements and included in the site-wide 2.0 Mg total, demonstrate at least once per year that the site-wide exempted total does not exceed 2.0 Mg. 40 CFR 61 Subpart FF. [40 CFR 61.342(c)(3)]

Waste streams sent offsite for treatment that contain an annual average benzene concentration >= 10 ppmw must be in compliance with these standards. 40 CFR 61 Subpart FF. [40 CFR 61.342(f)]

All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.

Be in compliance with the emission limits and work practice standards in 40 CFR 63 Subpart FFFF Tables 1 through 7 at all times, except during periods of startup, shutdown, and malfunction. Subpart FFFF. [40 CFR 63.2450(a)]

Submit documentation in the precompliance report explaining why an undue safety hazard would be created if the air emission controls were installed, and describe the procedures that will be implemented to minimize HAP emissions from these vent streams, if an emission stream contains energetics or organic peroxides that, for safety reasons, cannot meet an applicable emission limit specified in 40 CFR 63 Subpart FFFF Tables 1 through 7. Subpart FFFF. [40 CFR 63.2450(q)]

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- 518 [40 CFR 63.2515(a)]  
Submit all of the notifications in 40 CFR 63.6(h)(4) and (h)(5); 63.7(b) and (c); 63.8(e), (f)(4) and (f)(6), and 63.9(b) through (h) by the dates specified, as applicable. Subpart FFFF. [40 CFR 63.2515(a)]
- 519 [40 CFR 63.2515(c)]  
Submit notification of intent to conduct a performance test. Due at least 60 calendar days before the performance test is scheduled to begin as required in 40 CFR 63.7(b)(1), if required to conduct a performance test. Subpart FFFF. [40 CFR 63.2515(c)]
- 520 [40 CFR 63.2520(a)]  
Submit Compliance Report. Due semiannually by August 31 and February 28. Include the information specified in 40 CFR 63.2520(e)(1) through (e)(10). Subpart FFFF. [40 CFR 63.2520(a)]
- 521 [40 CFR 63.2520(d)(2)(i)]  
Submit Notification of Compliance Status Report. Due no later than 150 days after the compliance date specified in 40 CFR 63.2445. Include the information specified in 40 CFR 63.2520(d)(2)(i) through (d)(2)(ix). Subpart FFFF. [40 CFR 63.2520(a)]
- 522 [40 CFR 63.2520(a)]  
Submit Precompliance Report. Due at least six months prior to the compliance date. Include the information specified in 40 CFR 63.2520(c)(1) through (c)(7), as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
- 523 [40 CFR 63.2525]  
Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
- 524 [40 CFR 63.7886(b)(2)]  
Currently the Baton Rouge Complex does not have any affected sources subject to the following provisions: process vents, equipment leaks, closed-vent systems/control devices, or continuous monitoring systems. Remediation Material Management Units (RMMUs) are used to manage remediation material generated from site remediation associated with unplanned releases. The Baton Rouge Complex uses a variety of containers as RMMUs. Existing tanks and/or separators which are potentially subject to this Subpart are exempt from emission control requirements because they contain remediation material with an average total VOC/HAP <500 ppmw. 40 CFR 63 Subpart GGGGG. [40 CFR 63.7886(b)(2)]
- 525 [40 CFR 63.7886(b)]  
Containers are currently the only emission source (Remediation Material Management Unit) subject to the emission control requirements of the Site Remediation MACT. The HAP emission associated with these RMMUs will be controlled according to the applicable standards specified in 40 CFR 63.7900 through 40 CFR 63.7903, or will meet one of the following exemptions: (1) The remediation material will be include in the sitewide 1.0 Mg exemption list in accordance with 40 CFR 63.7881(c)(1); or (2). The site remediation will be completed within 30 consecutive calendar days in accordance with 40 CFR 63.7884(b). 40 CFR 63 Subpart GGGGG. [40 CFR 63.7886(b)]
- 526 [40 CFR 63.7886]  
The permittee shall comply with all applicable provisions of 40 CFR 63 Subpart GGGGG(Site Remediation NESHAP).
- 527 [40 CFR 63.7953(a)]  
Keep records in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). Keep files of all information (including all reports and notifications) for 5 years following the date of each occurrence, measurement, maintenance, action taken to correct the cause of a deviation, report, or record, as specified in 40 CFR 63.10(b)(1). Keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, correction action, report, or record, according to 40 CFR 63.10(b)(1). Records may be kept offsite for the remaining 3 years. Subpart GGGGG. [40 CFR 63.7953(a)]
- 528 [40 CFR 63.]  
All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table 12 of 40 CFR 63 Subpart FFFF.
- 529 [40 CFR 68.15(a)]  
Develop a management system to oversee the implementation of the risk management program elements. [40 CFR 68.15(a)]
- 530 [40 CFR 68.15(b)]  
Assign a qualified person or position that has the overall responsibility for the development, implementation, and integration of the risk management program elements. [40 CFR 68.15(b)]
- 531 [40 CFR 68.15(c)]  
Define the lines of authority through an organization chart or similar document when responsibility for implementing individual requirements of 40 CFR 68 is assigned to persons other than the person identified under 68.15(b). [40 CFR 68.15(c)]

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- 532 [40 CFR 68.15(c)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the names or positions of the people, other than the person identified under 68.15(b), who are assigned responsibility for implementing individual requirements of 40 CFR 68. [40 CFR 68.15(c)]
- 533 [40 CFR 68.150] Submit Risk Management Plan (RMP): Due no later than June 21, 1999, or three years after the date on which a regulated substance is first listed under 68.130, or the date on which a regulated substance is first present above a threshold quantity in a process. Submit in a method and format to a central point as specified by EPA prior to June 21, 1999.
- 534 [40 CFR 68.155] Provide in the RMP an executive summary that includes a brief description of the elements listed in 68.155(a) through (g).
- 535 [40 CFR 68.160] Complete a single registration form and include in the RMP. Cover all regulated substances handled in covered processes. Include in the registration the information specified in 68.160(b)(1) through (13).
- 536 [40 CFR 68.165] Submit in the RMP information the release scenarios specified in 68.165(a)(2). Include the data listed in 68.165(b)(1) through (13).
- 537 [40 CFR 68.168] Submit in the RMP the information provided in 68.42(b) on each accident covered by 68.42(a).
- 538 [40 CFR 68.175] Provide in the RMP the information indicated in 68.175(b) through (p).
- 539 [40 CFR 68.180] Provide in the RMP the emergency response information listed in 68.180(a) through (c).
- 540 [40 CFR 68.185(b)] Submit in the RMP a single certification that, to the best of the signer's knowledge, information, and belief formed after reasonable inquiry, the information submitted is true, accurate, and complete. [40 CFR 68.185(b)]
- 541 [40 CFR 68.190(c)] Submit revised registration to EPA: Due within six months after a stationary source is no longer subject to 40 CFR 68. Indicate that the stationary source is no longer covered. [40 CFR 68.190(c)]
- 542 [40 CFR 68.190] Review and update the RMP as specified in 68.190(b) and submit it in a method and format to a central point specified by EPA prior to June 21, 1999.
- 543 [40 CFR 68.200] Maintain records supporting the implementation of 40 CFR 68 for five years unless otherwise provided.
- 544 [40 CFR 68.22] Use the endpoints specified in 68.22(a) through (g) for analyses of offsite consequences.
- 545 [40 CFR 68.25] Analyze the release scenarios in 68.25, as specified in 68.25(a) through (h).
- 546 [40 CFR 68.28] Identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes, as specified in 68.28(b) through (c).
- 547 [40 CFR 68.30] Estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
- 548 [40 CFR 68.33] List in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
- 549 [40 CFR 68.36(b)] Submit revised RMP: Due within six months after changes in processes, quantities stored or handled, or any other aspect of the stationary source increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36(b)]
- 550 [40 CFR 68.36] Review and update the offsite consequence analyses at least once every five years. Complete a revised analysis within six months if changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of two or more.
- 551 [40 CFR 68.39] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 68.39(a) through (e) on the offsite consequence analyses.

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Include in the five-year accident history all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage. Include the information specified in 68.42(b)(1) through (10) for each accidental release.

- Compile written process safety information, which includes information pertaining to the hazards of the regulated substances used or produced by the process, information pertaining to the technology of the process, and information pertaining to the equipment in the process, before conducting any process hazard analysis required by 40 CFR 68. [40 CFR 68.65(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that equipment complies with recognized and generally accepted good engineering practices. [40 CFR 68.65(d)(2)] Determine that existing equipment, designed and constructed in accordance with codes, standards, or practices that are no longer in general use, is designed, maintained, inspected, tested, and operating in a safe manner. [40 CFR 68.65(d)(3)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that existing equipment, designed and constructed in accordance with codes, standards, or practices that are no longer in general use, is designed, maintained, inspected, tested, and operating in a safe manner. [40 CFR 68.65(d)(3)] Determine the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)] Use one or more of the methodologies in Sec. 68.67(b)(1) through (b)(7) to determine and evaluate the hazards of the process being analyzed. [40 CFR 68.67(b)] Use a team with expertise in engineering and process operations to perform the process hazard analysis. Include at least one employee who has experience and knowledge specific to the process being evaluated, and at least one employee who is knowledgeable in the specific process hazard analysis methodology being used. [40 CFR 68.67(d)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the resolution of the recommendations of the team performing the process hazard analysis, and what actions are to be taken. [40 CFR 68.67(e)] Establish a system to promptly address the team's findings and recommendations; assure that the recommendations are resolved in a timely manner and that the resolution is documented; document what actions are to be taken; complete actions as soon as possible; develop a written schedule of when these actions are to be completed; communicate the actions to operating, maintenance and other employees whose work assignments are in the process and who may be affected by the recommendations or actions. [40 CFR 68.67(e)] Update and revalidate the process hazard analysis at least every five years after the completion of the initial process hazard analysis, to assure that the process hazard analysis is consistent with the current process. Use a team that meets the requirements in Sec. 68.67(d). [40 CFR 68.67(f)] Retain process hazard analyses and updates or validations for each process covered by this section, as well as the documented resolution of recommendations described in Sec. 68.67(e), for the life of the process. [40 CFR 68.67(g)]

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- 565 [40 CFR 68.67] Perform an initial process hazard analysis (hazard evaluation) on processes covered by 40 CFR 68 as soon as possible, but not later than June 21, 1999. The process hazard analysis shall identify, evaluate, and control the hazards involved in the process, and address the information in 40 CFR 68.67(c)(1) through (7).
- 566 [40 CFR 68.69(a)] Develop and implement written operating procedures that provide clear instructions for safely conducting activities involved in each covered process consistent with the process safety information. Address steps for each operating phase, operating limits, safety and health considerations, and safety systems and their functions in the procedures. [40 CFR 68.69(a)]
- 567 [40 CFR 68.69(b)] Make operating procedures readily accessible to employees who work in or maintain a process. [40 CFR 68.69(b)]
- 568 [40 CFR 68.69(c)] Review operating procedures as often as necessary to assure that they reflect current operating practice, including changes that result from changes in process chemicals, technology, and equipment, and changes to stationary sources. Certify annually that these operating procedures are current and accurate. [40 CFR 68.69(c)]
- 569 [40 CFR 68.69(d)] Develop and implement safe work practices to provide for the control of hazards during specific operations. [40 CFR 68.69(d)]
- 570 [40 CFR 68.71(a)(1)] Train each employee presently involved in operating a process, and each employee before being involved in operating a newly assigned process, in an overview of the process and in the operating procedures as specified in Sec. 68.69. Emphasize the specific safety and health hazards, emergency operations including shutdown, and safe work practices applicable to the employee's job tasks. [40 CFR 68.71(a)(1)]
- 571 [40 CFR 68.71(b)] Provide refresher training at least every three years, and more often if necessary, to each employee involved in operating a process to assure that the employee understands and adheres to the current operating procedures of the process. [40 CFR 68.71(b)]
- 572 [40 CFR 68.71(c)] Ascertain that each employee involved in operating a process has received and understood the training required by Sec. 68.71. [40 CFR 68.71(c)]
- 573 [40 CFR 68.71(c)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Prepare a record which contains the identity of the employee, the date of training required by 40 CFR 68.71, and the means used to verify that the employee understood the training. [40 CFR 68.71(c)]
- 574 [40 CFR 68.73(b)] Establish and implement written procedures to maintain the ongoing integrity of process equipment listed in Sec. 68.73(a). [40 CFR 68.73(b)]
- 575 [40 CFR 68.73(c)] Train each employee involved in maintaining the ongoing integrity of process equipment in an overview of that process and its hazards and in the procedures applicable to the employee's job tasks to assure that the employee can perform the job tasks in a safe manner. [40 CFR 68.73(c)]
- 576 [40 CFR 68.73(d)(4)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document each inspection and test that has been performed on process equipment. Maintain records of the information specified in Sec. 68.73(d)(4). [40 CFR 68.73(d)(4)]
- 577 [40 CFR 68.73(d)] Perform inspections and tests following recognized and generally accepted good engineering practices on process equipment listed in 40 CFR 68.73(a). Make the frequency of inspections and tests consistent with applicable manufacturer's recommendations and good engineering practices, and more frequently if determined to be necessary by prior operating experience. [40 CFR 68.73(d)]
- 578 [40 CFR 68.73(e)] Correct deficiencies in equipment that are outside acceptable limits before further use or in a safe and timely manner when necessary means are taken to assure safe operation. [40 CFR 68.73(e)]
- 579 [40 CFR 68.73(f)] Assure that equipment as it is fabricated is suitable for the process application for which it will be used, in the construction of new plants and equipment. Perform appropriate checks and inspections to assure that equipment is installed properly and consistent with design specifications and the manufacturer's instructions. Assure that maintenance materials, spare parts and equipment are suitable for the process application for which they will be used. [40 CFR 68.73(f)]

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- 580 [40 CFR 68.75(c)] Inform employees involved in operating a process, and maintenance and contract employees whose job tasks will be affected, of a change in the process and train them in the change, prior to start-up of the process or affected part of the process. [40 CFR 68.75(c)]
- 581 [40 CFR 68.75(d)] Update the process safety information required by Sec. 68.65 if a change covered by 68.75 results in a change in the process safety information. [40 CFR 68.75(d)]
- 582 [40 CFR 68.75(e)] Update the operating procedures or practices required by Sec. 68.69 if a change covered by 68.75 results in a change in the operating procedures or practices. [40 CFR 68.75(e)]
- 583 [40 CFR 68.75] Establish and implement written procedures to manage changes to process chemicals, technology, equipment, and procedures; and, changes to stationary sources that affect a covered process. Assure that the considerations specified in Sec. 68.75(b)(1) through (b)(5) are addressed prior to any change.
- 584 [40 CFR 68.77] Perform a pre-startup safety review for new stationary sources and for modified stationary sources when the modification is significant enough to require a change in the process safety information. Safety review must confirm the information specified in Sec. 68.77(b)(1) through (b)(4) prior to the introduction of regulated substances to a process.
- 585 [40 CFR 68.79(c)] Develop a report of the findings of the compliance audit required by 40 CFR 68.79(a). [40 CFR 68.79(c)]
- 586 [40 CFR 68.79(d)] Determine an appropriate response to each of the findings of the compliance audit. [40 CFR 68.79(d)]
- 587 [40 CFR 68.79(d)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the appropriate response to each of the findings of the compliance audit, and document that deficiencies have been corrected. [40 CFR 68.79(d)]
- 588 [40 CFR 68.79(e)] Retain the two (2) most recent compliance audit reports. [40 CFR 68.79(e)]
- 589 [40 CFR 68.79] Conduct compliance audit. Due at least every three years. Certify compliance with the provisions of the prevention program to verify that procedures and practices developed under 40 CFR 68 are adequate and are being followed. Conduct compliance audit by at least one person knowledgeable in the process.
- 590 [40 CFR 68.81(c)] Establish an incident investigation team consisting of at least one person knowledgeable in the process involved, including a contract employee if the incident involved work of the contractor, and other persons with appropriate knowledge and experience to thoroughly investigate and analyze the incident. [40 CFR 68.81(c)]
- 591 [40 CFR 68.81(e)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document resolutions and corrective actions of the incident report findings and recommendations. [40 CFR 68.81(e)]
- 592-[40 CFR 68.81(e)] Establish a system to promptly address and resolve the incident report findings and recommendations. [40 CFR 68.81(e)]
- 593 [40 CFR 68.81] Conduct incident investigation: Due as promptly as possible, but not later than 48 hours following each incident which resulted in, or could reasonably have resulted in a catastrophic release of a regulated substance.
- 594 [40 CFR 68.81] Prepare a report at the conclusion of the incident investigation which includes, at a minimum, the information specified in 40 CFR 68.81(d)(1) through (5). Review the report with all affected personnel whose job tasks are relevant to the incident findings including contract employees where applicable. Retain the incident investigation reports for five years.
- 595 [40 CFR 68.83(a)] Develop a written plan of action regarding the implementation of the employee participation required by 40 CFR 68. [40 CFR 68.83(a)]
- 596 [40 CFR 68.83(b)] Consult with employees and their representatives on the conduct and development of process hazards analyses and on the development of the other elements of process safety management. [40 CFR 68.83(b)]

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- 597 [40 CFR 68.83(c)] Provide to employees and their representatives access to process hazard analyses and to all other information required to be developed under 40 CFR 68. [40 CFR 68.83(c)]
- 598 [40 CFR 68.85] Issue a hot work permit for hot work operations conducted on or near a covered process. Document in the permit that the fire prevention and protection requirements in 29 CFR 1910.252(a) have been implemented prior to beginning the hot work operations; indicate the date(s) authorized for hot work, and identify the object on which hot work is to be performed. Keep permit on file until completion of the hot work operations.
- 599 [40 CFR 68.87(b)(1)] Obtain and evaluate information regarding the contract owner or operator's safety performance and programs, when selecting a contractor. [40 CFR 68.87(b)(1)]
- 600 [40 CFR 68.87(b)(2)] Inform contract owner or operator of the known potential fire, explosion, or toxic release hazards related to the contractor's work and the process. [40 CFR 68.87(b)(2)]
- 601 [40 CFR 68.87(b)(3)] Explain to the contract owner or operator the applicable provisions of 40 CFR 68 Subpart E. [40 CFR 68.87(b)(3)]
- 602 [40 CFR 68.87(b)(4)] Develop and implement safe work practices consistent with Sec. 68.69(d), to control the entrance, presence, and exit of the contract owner or operator and contract employees in covered process areas. [40 CFR 68.87(b)(4)]
- 603 [40 CFR 68.87(b)(5)] Periodically evaluate the performance of the contract owner or operator in fulfilling their obligations as specified in 40 CFR 68.87(c). [40 CFR 68.87(b)(5)]
- 604 [40 CFR 68.95(a)] Develop and implement an emergency response program for the purpose of protecting public health and the environment. Include in the program the elements listed in 40 CFR 68.95(a)(1) through (4). [40 CFR 68.95(a)]
- 605 [40 CFR 68.95(c)] Coordinate the emergency response plan developed under 68.95(a)(1) with the community emergency response plan developed under 42 U.S.C. 11003. Upon request of the local emergency planning committee or emergency response officials, promptly provide information necessary for developing and implementing the community emergency response plan. [40 CFR 68.95(c)]
- 606 [40 CFR 70.5(a)(1)(iii)] Submit Title V permit application for renewal: Due 6 months before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 607 [40 CFR 70.6(a)(3)(iii)(A)] Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 608 [40 CFR 70.6(c)(2)(iii)(D)] Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. [40 CFR 70.6(a)(3)(iii)(B)]
- 609 [40 CFR 70.6(c)(5)(iv)] Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]

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- 610 [40 CFR 72.9(c)(1)(i)] COMPANY's NAME OF PLANT shall secure one allowance for each ton of SO<sub>2</sub> emitted per year. At the end of the year, each used allowance is retired and cannot be used again. EPA will record allowance transfers that are used for compliance and ensure that NAME OF PLANT's emissions do not exceed the number of allowances it holds via the Allowance Tracking System (ATS). See Subparts C & D of part 73. [40 CFR 72.9(c)(1)(i)]
- 611 [40 CFR 82. Subpart F] Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- 612 [LAC 33:III.103] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- 613 [LAC 33:III.109.B] Outdoor burning of waste material or other combustible material is prohibited.
- 614 [LAC 33:III.1303.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 615 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 616 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 617 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- 618 [LAC 33:III.2901.F] If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 619 [LAC 33:III.501.C.6] Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, cis-2-Butene, trans-2-Butene, Ethylene, Propylene, Toluene, Xylene, m/p-Xylene, o-Xylene. (State Only).
- 620 [LAC 33:III.501.C.6] Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only).
- 621 [LAC 33:III.504] Comply with the requirements of the Nonattainment New Source Review Program. This permit includes provisions of the Nonattainment New Source Review Procedures (NNSR) from LAC 33:III.504.
- 622 [LAC 33:III.507.G.5] Alternate Operating Scenario: Operating plan recordkeeping by logbook upon each occurrence of making a change from one operating scenario to another. Record the operating scenario under which the facility is currently operating. Include in this record the identity of the sources involved, the permit number under which the scenario is included, and the date of change. Keep a copy of the log on site for at least two years. Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III. Chapter 51 Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III. Chapter 51 Subchapter A, after the effective date of the standard.

**SPECIFIC REQUIREMENTS****AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant****Activity Number: PER20070022****Permit Number: 2156-V1****Air - Title V Regular Permit Renewal****UNF0007 ESCOREZ 1000 (E-1000) Unit**

- 624 [LAC 33:III.5105.A.2] Do not cause a violation of any ambient air standard listed in LAC 33:III. Table 51.2, unless operating in accordance with LAC 33:III.5109.B.  
Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 625 [LAC 33:III.5105.A.3] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III Chapter 51 Subchapter A.
- 626 [LAC 33:III.5105.A.4] Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
- 627 [LAC 33:III.5107.A.2] Submit Annual Emissions Report (TEDI): Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 628 [LAC 33:III.5107.A] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 629 [LAC 33:III.5107.B.1] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923.
- 630 [LAC 33:III.5107.B.2] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931. Submit notification in the manner provided in LAC 33:III.3923.
- 631 [LAC 33:III.5107.B.3] Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.vii. Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THE IT CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- 632 [LAC 33:III.5107.B.4] Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III. Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.
- 633 [LAC 33:III.5107.B.5] Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.
- 634 [LAC 33:III.5109.C]
- 635 [LAC 33:III.5113.A.1]

**SPECIFIC REQUIREMENTS**

**AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant**  
**Activity Number: PER20070022**  
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- 636-[LAC 33:III.5113.A.2] Submit notification in-writing. Due to SFOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.
- 637 [LAC 33:III.5307.A] Submit initial emissions inventory report. Due to the Department of Environmental Quality on or before October 1, 1994. Submit on a form or in an electronic format specified by the department and include the information specified in LAC 33:III.5307.A.1 through 7.
- 638 [LAC 33:III.5307.B] Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 1st of July to the Office of Environmental Services. Include the information in LAC 33:III.5307.A for the preceding calendar year.
- 639 [LAC 33:III.5609.A.1.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.
- 640 [LAC 33:III.5609.A.2.b] Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.
- 641 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.
- 642 [LAC 33:III.5609.A] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
- 643 [LAC 33:III.5901.A] Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.
- 644 [LAC 33:III.5907] Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- 645 [LAC 33:III.5911.A] Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- 646 [LAC 33:III.5911.C] Submit registration: Due January 31, 1998; or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Office of Environmental Compliance.
- 647 [LAC 33:III.919.D] Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.
- 648 [LAC 33:III.5911.D] Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.